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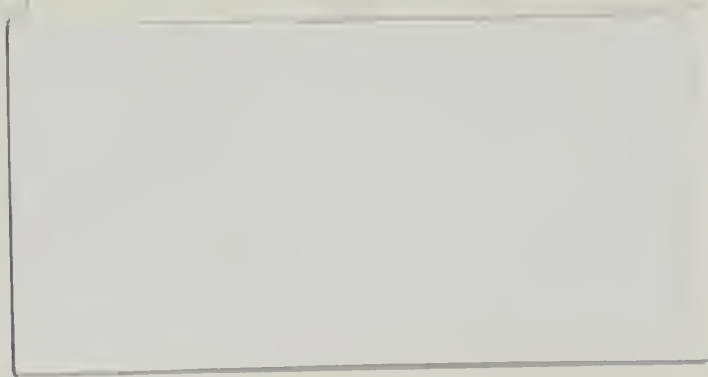


aeromet inc.

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MONTHLY PROGRESS REPORT NO. 5

for the period July 1-31, 1976

to

ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

1860 Lincoln St., Suite 900

Denver, CO 80203

Contract No. 68-01-1946

by

Aeromet, Inc.

Box FF

Norman, OK 73070

COLORADO CB TRACT



1.0 INTRODUCTION

Low level temperature and wind data were collected for July 1976 at Casper, Wyoming; the Shell Oil Co. Colorado CB Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville, Utah; and Rock Springs, Wyoming. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made 1/2 hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built in Rustrak strip chart recorder and the temperature was recorded within the range from -50 to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into six parts, one corresponding to each of the six field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.

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2.0 DATA SUMMARY

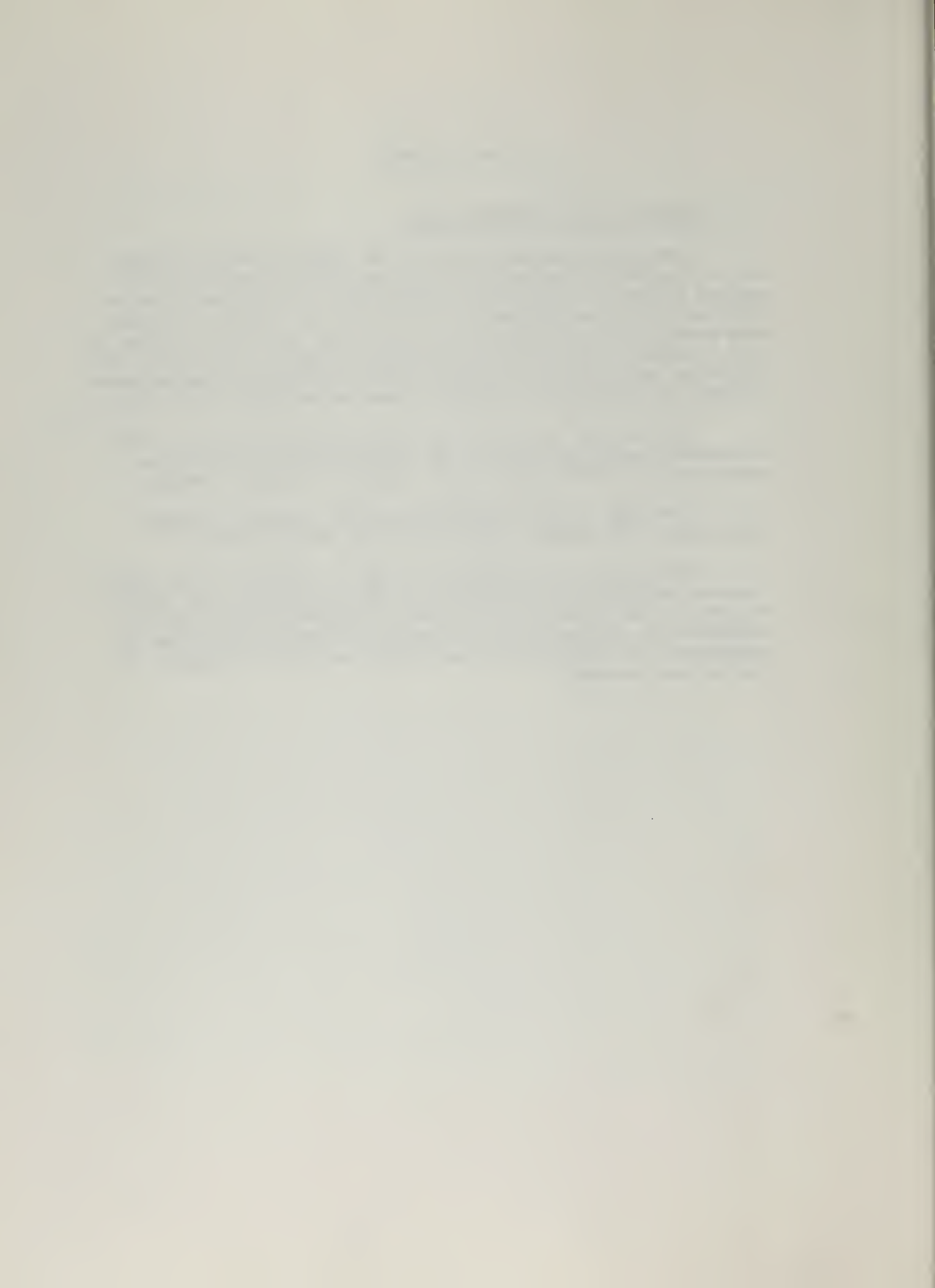
2.1 Colorado Cb Tract Field Summary

The primary observer was sent to Louisiana until 17 August and the secondary observer took over the balloon launches. The quality of the data collection dropped until reaching the point of no longer doing the observations after 27 July. Numerous attempts were made to reach the observer with messages left daily to have the call returned. The observer avoided all attempts to be reached and it was not until 13 August that he stated the balloon launches were too much of a hassle and he did not want to be bothered with them.

The balloon ascent rate was reduced to 500 ft./min. before the morning launch on 9 July. The reduced ascent rate will cut down on the use of helium and will reduce the balloon breakage.

The lighter wind conditions are the cause for the large wind direction variation found in the data for the month.

The observer attempted 69% of the scheduled pilot balloon launches resulting in 66% recovery of the temperature data and 69% recovery of the wind data. A 3% loss of temperature data can be attributed to equipment malfunction and the remaining 31% loss of temperature and wind data are due to the lack of an attempt to do the balloon launches.



2.2 Mixing Layer Height

The average mixing layer height was derived subjectively from the morning and afternoon temperature and wind profiles. The morning sounding was near the minimum temperature while the afternoon sounding was near the maximum temperature providing a good comparison for defining an average mixing layer height. If the mixing layer height derived from only the morning sounding for the lower 2000m was not maintained throughout the day because of temperature changes due to advection, then one was not defined to exist. A blank indicates there were insufficient data to calculate a mixing layer height. It is still contended that for the proper scientific evaluation and interpretation of the mixing layer height that an objective method be used. A library research on the topic is continuing, however the most acceptable method is to measure the minimum and maximum temperatures, add a heat island effect factor and trace the dry adiabatic to the point of intersection on the given temperature profile. The field sites are not equipped with minimum/maximum thermometers so an alternative method is under investigation.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

CONTENTS	
ORIGINAL ARTICLES	1-10
REPORTS	11-15
EDITORIALS	16-18
DEPARTMENTS	19-25
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3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthognal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT (°C/100m)	WIND SPEED
A	<-1.9	≤ 2
B	-1.9 - -1.7	≤ 5
C	-1.7 - -1.5	≤ 6
D	-1.5 - -0.5	ALL SPEEDS
E	-0.5 - 1.5	≤ 5
F	>1.5	≤ 3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,



if the $\Delta T/100\text{m}$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of $1.7^\circ\text{C}/100\text{ m}$ and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. The first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL (4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the v-component of the wind in m/s (6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate °C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

MONTH: MARCH YEAR: 1976. CASPER SFC TO 500 METERS

[illegible]

and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. Number
Casper, Wyoming	1
Colorado CB Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6

The month and season number codes are as follows.

MONTH	1-12
SEASON	13=DJF
	14=MAM
	15=JJA
	16=SON
ANNUAL	17

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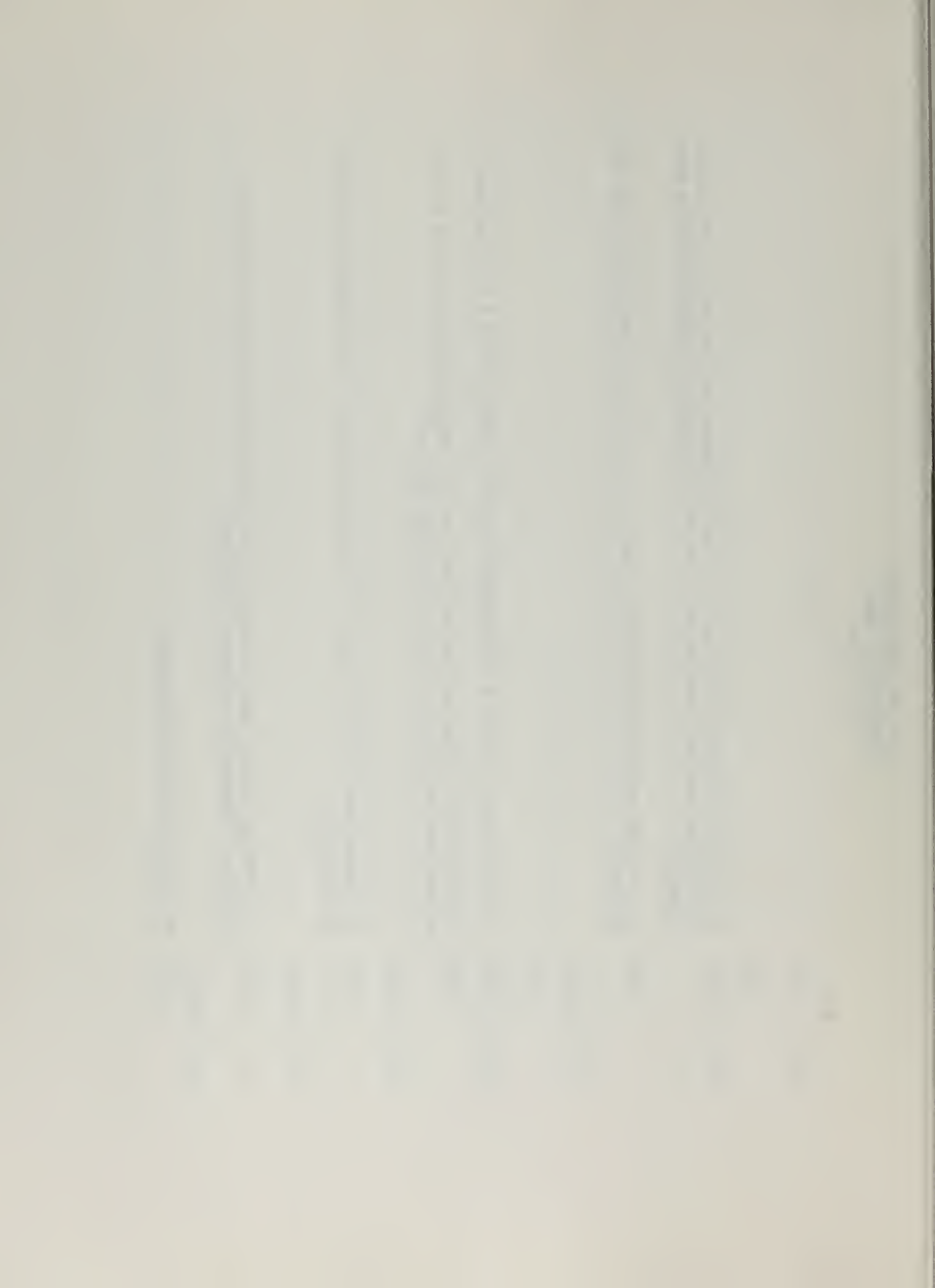
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PILOT BALLOON SUMMARY
COLORADO CB TRACT
July, 1976

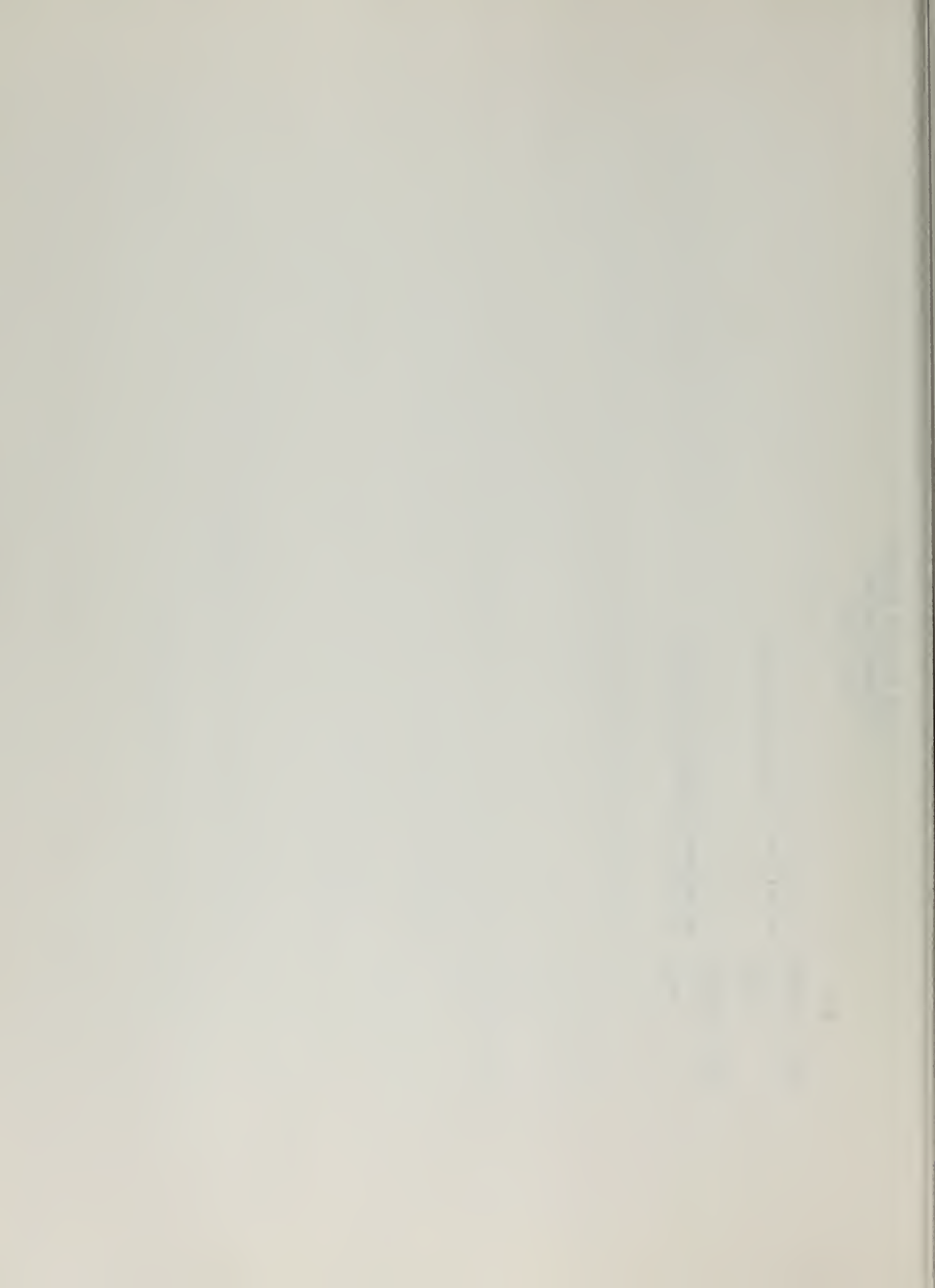
July 1	0600	The temperature data were interpolated over the interval from 12 to 15 minutes elapsed time.
	1230	The temperature sonde malfunctioned at launch. No temperature data were recovered and no attempt was made to launch a second sonde.
July 3	0600	The temperature data were noisy during the interval from 3 to 6½ minutes elapsed time so the data were smoothed.
	1230	The signal from the sonde was temporarily lost for the two minute intervals starting at 4 and 8 minutes. The data were interpolated over the interval.
July 5	MORN } AFTN }	No balloon releases were made.
July 7	MORN } AFTN }	No balloon releases were made.
July 9	0615	The balloon ascent rate was reduced to 500 ft/min.
	1100	The observer had to release the balloon early because of circumstances on the tract.
July 11	0645	
	1130	The temperature data for the interval from 3 to 5 minutes are interpolated data.
July 13	0715	The first temperature sonde released was defective so a second sonde was released. The signal from the sonde was noisy resulting in the smoothing of the temperature data over the interval from 4 to 8 minutes.
	1200	The temperature data were smoothed over the interval from 4 to 5 minutes and 7 to 10 minutes.



PILOT BALLOON SUMMARY
COLORADO Cb TRACT
July, 1976

July 29 MORN) No balloon releases were made.
AFTN)

July 31 MORN) No balloon releases were made.
AFTN)



CLOUD COVER AND SIGNIFICANT WEATHER
COLORADO Cb TRACT

July, 1976

<u>DATE</u>	<u>MORNING</u>	<u>AFTERNOON</u>
1	clear	clear
3	clear	clear
5		
7		
9	scattered	clear
11	clear	scattered
13	clear	scattered
15	clear	clear
17	scattered	scattered
19	broken	broken
21	clear	clear
23	clear	clear
25	broken	overcast, rain S-SW
27		
29		
31		

AVERAGE MIXING LAYER HEIGHT

COLORADO Cb TRACT

July 1976

<u>DATE</u>	<u>HEIGHT</u>
1	1500m
3	700m
5	
7	
9	100m
11	1500m
13	1100m
15	600m
17	1200m
19	1000m
21	1500m
23	none defined
25	1100m
27	
29	
31	

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2739

TE 07/01/76 TIME 06:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		16.00		0.0		2.1	270.
0.7	150	2192	12.43	-3.57	-3.61	-0.68	4.0	165.
1.1	300	2342	11.25	-1.17	-4.26	-1.34	6.6	160.
1.8	458.	2500.	9.30	-1.89	-4.10	-1.17	4.6	178.
2.0	500	2542	9.03	-0.32	-3.28	-0.35	4.3	186.
3.8	958.	3000.	4.20	-4.79	-6.07	-3.14	4.2	205.
8.5	1958.	4000.	-2.20	-6.45	-1.80	1.12	3.9	225.
13.7	2958.	5000.	-10.70	-8.00	-1.97	0.96	5.2	243.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2739

TE 07/01/76 TIME 06:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	2.1	0.0	2.1	270.
0.5	91.	2133.	-0.5	2.4	2.5	169.
1.0	269.	2311.	-2.6	6.7	7.5	159.
1.5	379.	2421.	-1.3	5.0	5.1	165.
2.0	499.	2541.	0.4	4.2	4.3	185.
2.5	616.	2658.	2.0	3.7	4.2	208.
3.0	721.	2763.	1.8	3.3	2.9	219.
3.5	854.	2896.	1.6	3.3	3.6	206.
4.0	1019.	3061.	1.9	4.2	4.6	205.
4.5	1189.	3231.	3.0	3.7	4.5	223.
5.0	1324.	3366.	2.2	2.7	3.5	219.
5.5	1415.	3457.	2.1	1.5	2.6	236.
6.0	1507.	3549.	1.7	1.3	1.3	233.
6.5	1598.	3640.	1.1	1.0	1.5	227.
7.0	1689.	3731.	1.8	0.8	2.0	246.
7.5	1781.	3823.	0.9	1.2	1.5	216.
8.0	1872.	3914.	1.9	0.7	4.0	223.
8.5	1964.	4006.	2.8	0.0	4.0	223.
9.0	2055.	4097.	2.4	0.1	4.4	228.
9.5	2147.	4189.	2.3	0.7	4.4	223.
10.0	2272.	4314.	3.0	1.8	4.5	239.
10.5	2367.	4409.	2.9	3.3	4.5	236.
11.0	2459.	4501.	4.0	3.3	4.5	230.
11.5	2550.	4592.	2.0	2.6	4.5	217.
12.0	2642.	4684.	2.8	2.2	4.5	231.
12.5	2733.	4775.	2.9	2.9	4.5	238.
13.0	2824.	4866.	2.7	1.7	4.5	237.
13.5	2916.	4958.	3.7	2.0	6.0	251.
14.0	3007.	5049.	3.4	2.4	4.2	235.
14.5	3099.	5141.	3.4	2.2	4.0	237.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2737

TE 07/01/76 TIME 12130MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	8FC		M				2.6	270.
0.8	150	2192					1.6	210.
1.6	300	2342					2.4	179.
2.5	458.	2500.					2.7	175.
2.7	500	2542.					2.8	178.
5.2	958.	3000.					3.0	193.
10.7	1958.	4000.					3.7	206.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2737

ATE 07/01/76 TIME 12130MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	2.6	0.0	2.6	270.
0.5	91.	2133.	0.8	1.3	1.5	213.
1.0	183.	2225.	0.8	1.4	1.6	208.
1.5	274.	2316.	0.1	2.2	2.2	181.
2.0	366.	2408.	0.4	2.9	2.9	173.
2.5	457.	2499.	0.2	2.6	2.7	175.
3.0	549.	2591.	0.1	2.6	2.9	182.
3.5	640.	2682.	0.1	2.6	2.6	183.
4.0	732.	2774.	1.4	3.0	3.3	206.
4.5	823.	2865.	0.9	2.8	2.9	198.
5.0	914.	2956.	0.8	2.9	3.0	195.
5.5	1006.	3048.	0.6	3.0	3.1	191.
6.0	1097.	3139.	0.6	3.0	3.1	190.
6.5	1189.	3231.	2.5	4.8	5.4	208.
7.0	1280.	3322.	3.3	5.5	6.8	215.
7.5	1372.	3414.	3.3	5.7	6.9	222.
8.0	1463.	3505.	1.4	4.4	3.7	203.
8.5	1554.	3596.	1.5	4.4	3.8	204.
9.0	1646.	3688.	1.1	3.3	4.2	204.
9.5	1737.	3779.	1.4	4.4	4.7	202.
10.0	1829.	3871.	1.8	4.4	4.7	203.
10.5	1920.	3962.	1.8	3.5	3.9	208.
11.0	2012.	4054.	1.4	3.3	3.4	205.
11.5	2103.	4145.	1.1	3.2	3.4	198.
12.0	2195.	4237.	2.3	4.0	4.6	210.

COL CB TRACT

LEV 2042 METERS

SOUNDING ID 2738

7/03/76 TIME 06:00MST

ASCENT RATE 600 FPM

DATA INTERVAL 15 SEC.

HEIGHT M (AGL)	HEIGHT M (MSL)	TE DEF	MP C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
SFC		27	00		0.0		0.0	0.
150	2192	17	39	-1.61	-2.30	0.63	0.9	284.
300	2342	17	52	-0.87	-2.62	0.30	0.9	262.
458.	2500.	17	20	-1.59	-2.79	0.14	0.9	245.
500	2542.	17	26	-0.66	-2.79	0.14	1.0	251.
958.	3000.	17	80	-3.26	-2.13	0.80	0.6	198.
1958.	4000.	17	50	-0.19	-3.44	-0.52	0.8	201.
2958.	5000.	17	90	-7.71	-1.15	1.78	M	M

COL CB TRACT

LEV 2042 METERS

SOUNDING ID 2738

07/03/76 TIME 06:00MST

ASCENT RATE 600 FPM

DATA INTERVAL 15 SEC.

HEIGHT M (AGL)	HEIGHT M (MSL)	U- M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.	2042.	0.0	0.0	0.0	0.
91.	2133.	1.4	-0.4	1.5	287.
183.	2225.	0.5	-0.1	0.5	283.
274.	2316.	0.9	0.1	0.9	263.
366.	2408.	0.8	0.1	0.8	260.
457.	2499.	0.8	0.4	0.9	245.
549.	2591.	1.1	0.2	1.1	258.
640.	2682.	1.1	0.8	0.8	172.
732.	2774.	1.5	0.9	1.0	210.
823.	2865.	1.2	0.4	0.5	212.
914.	2956.	1.1	0.1	0.2	234.
1006.	3048.	1.4	1.0	1.1	159.
1097.	3139.	1.3	1.3	1.4	173.
1189.	3231.	1.2	0.2	0.3	143.
1280.	3322.	1.1	0.6	0.6	169.
1372.	3414.	1.2	0.3	0.3	214.
1463.	3505.	1.1	0.7	0.7	174.
1554.	3596.	1.3	0.4	0.8	156.
1646.	3688.	1.3	1.3	1.3	195.
1737.	3779.	1.1	1.1	1.1	195.
1835.	3877.	0.8	0.8	0.9	202.
1935.	3977.	0.6	0.6	0.7	199.
2031.	4073.	0.2	0.2	0.2	200.
2129.	4171.	0.1	0.1	0.1	199.
2220.	4262.	0.0	0.0	0.0	0.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2735

DATE 07/03/76

TIME 12:30MST

ASCENT RATE 600 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		20.00		0.0		2.6	270.
0.8	150.	2192.	18.51	-1.49	-2.95	-0.02	2.1	339.
1.6	300.	2342.	17.23	-1.27	-4.10	-1.17	1.0	328.
2.3	458.	2500.	15.20	-1.98	-3.61	-0.68	1.4	324.
2.5	500.	2542.	14.93	-0.32	-2.30	0.63	1.6	329.
4.9	958.	3000.	11.00	-3.92	-2.62	0.30	1.7	314.
10.3	1958.	4000.	3.20	-7.80	-2.62	0.30	2.4	312.
15.7	2958.	5000.	-4.00	-7.21	-0.33	2.60	M	M

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2735

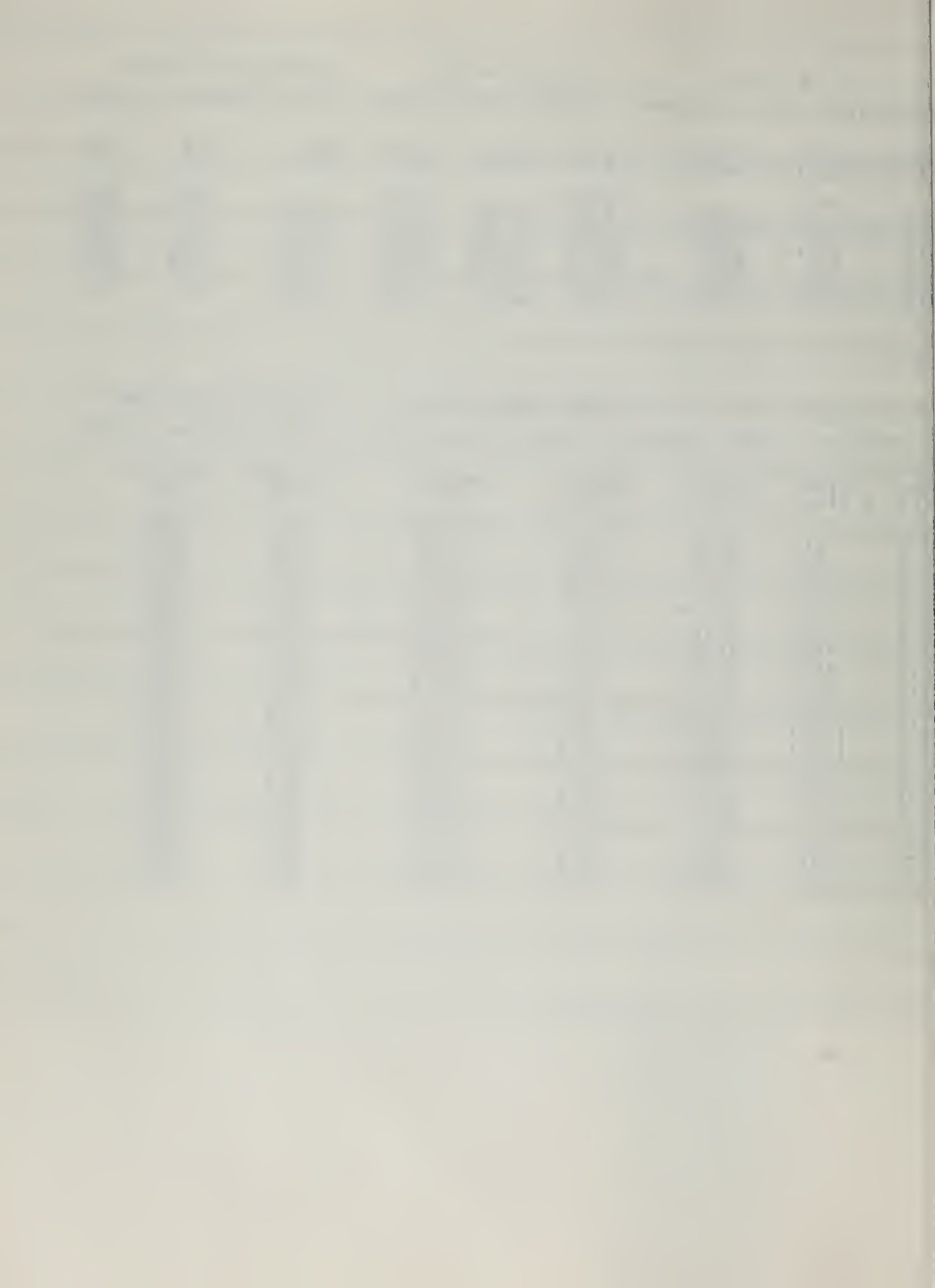
DATE 07/03/76

TIME 12:30MST

ASCENT RATE 600 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	2.6	0.0	2.6	270.
0.5	91.	2133.	0.7	-2.3	2.4	342.
1.0	183.	2225.	0.7	-1.7	1.9	337.
1.5	274.	2316.	0.4	-0.8	0.9	332.
2.0	379.	2421.	0.7	-0.7	1.0	314.
2.5	499.	2541.	0.8	-1.4	1.6	329.
3.0	600.	2642.	0.8	-1.5	1.7	332.
3.5	691.	2733.	1.0	-1.8	2.1	331.
4.0	785.	2827.	0.7	-1.5	1.7	335.
4.5	887.	2929.	1.4	-1.6	2.1	318.
5.0	979.	3021.	1.2	-1.1	1.6	313.
5.5	1070.	3112.	1.3	-1.7	2.1	321.
6.0	1166.	3208.	0.4	-0.2	0.5	298.
6.5	1257.	3299.	0.8	-1.1	1.3	323.
7.0	1349.	3391.	0.6	-0.7	0.9	318.
7.5	1440.	3482.	1.2	-1.8	2.2	326.
8.0	1531.	3573.	1.4	-1.6	2.2	319.
8.5	1623.	3665.	1.6	-1.5	2.2	312.
9.0	1714.	3756.	1.3	-1.6	2.1	321.
9.5	1806.	3848.	1.9	-0.7	2.1	302.
10.0	1897.	3939.	1.7	-1.1	2.0	317.
10.5	1989.	4031.	1.7	-1.9	2.5	323.
11.0	2080.	4122.	1.2	-1.6	2.0	314.
11.5	2180.	4222.	1.9	-1.9	2.7	315.
12.0	2271.	4313.	2.0	-1.9	2.8	315.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2734

DATE 07/09/76 TIME 06:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		23.10		0.0		0.5	270.
1.0	150.	2192.	22.20	-0.90	-2.16	0.76	0.7	169.
1.9	300.	2342.	20.61	-1.60	-2.56	0.37	2.0	200.
3.0	450.	2500.	19.30	-1.30	-2.95	-0.02	4.4	208.
3.2	500.	2542.	18.80	-0.50	-1.57	1.35	3.1	209.
6.2	958.	3000.	16.30	-2.40	-1.77	1.16	5.4	236.
12.8	1958.	4000.	8.20	-8.20	-2.95	-0.02	M	M
18.7	2958.	5000.	-1.40	-9.60	-3.15	-0.22	M	M

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2734

DATE 07/09/76 TIME 06:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.5	0.0	0.5	270.
0.5	76.	2118.	0.7	0.5	0.9	239.
1.0	152.	2194.	0.2	0.7	0.7	167.
1.5	233.	2275.	0.8	1.1	1.3	145.
2.0	311.	2353.	1.5	2.8	3.2	209.
2.5	387.	2429.	1.0	1.6	1.9	211.
3.0	463.	2505.	2.1	4.0	4.6	208.
3.5	540.	2582.	0.7	1.3	1.5	209.
4.0	616.	2658.	1.1	2.7	2.9	201.
4.5	692.	2734.	0.8	2.6	2.8	197.
5.0	768.	2810.	1.8	2.9	3.5	212.
5.5	844.	2886.	5.2	3.1	0.0	239.
6.0	921.	2963.	5.2	3.5	2.2	236.
6.5	997.	3039.	3.7	2.5	4.5	236.
7.0	1073.	3115.	6.3	1.8	6.5	254.
7.5	1149.	3191.	4.8	1.4	5.0	254.
8.0	1225.	3267.	5.3	1.2	5.5	257.
8.5	1302.	3344.	6.2	0.7	6.2	264.
9.0	1378.	3420.	4.7	0.0	4.7	261.
9.5	1454.	3496.	4.7	0.4	4.7	266.
10.0	1532.	3574.	4.5	0.9	4.6	259.
10.5	1608.	3650.	4.4	0.1	4.4	272.
11.0	1685.	3727.	4.0	1.2	4.1	254.
11.5	1761.	3803.	3.5	0.0	3.6	255.
12.0	1837.	3879.	3.5	1.5	3.8	246.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2735

DATE 07/09/76 TIME 11:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		30.30		0.0		2.6	180.
1.0	150	2192	29.40	-0.90	-2.36	0.57	2.5	168.
2.0	300	2342	28.30	-1.10	-2.16	0.76	1.4	181.
3.0	458.	2500.	26.60	-1.66	-3.35	-0.42	2.8	175.
3.3	500	2542	26.60	-0.04	-3.35	-0.42	3.1	169.
6.1	958.	3000.	22.20	-4.09	-2.76	0.17	3.0	253.
12.4	1958.	4000.	13.90	-8.60	-2.95	-0.02		
18.6	2958.	5000.	4.80	-9.10	-2.16	0.76		
25.0	3958.	6000.	-3.30	-8.10	-1.97	0.96		

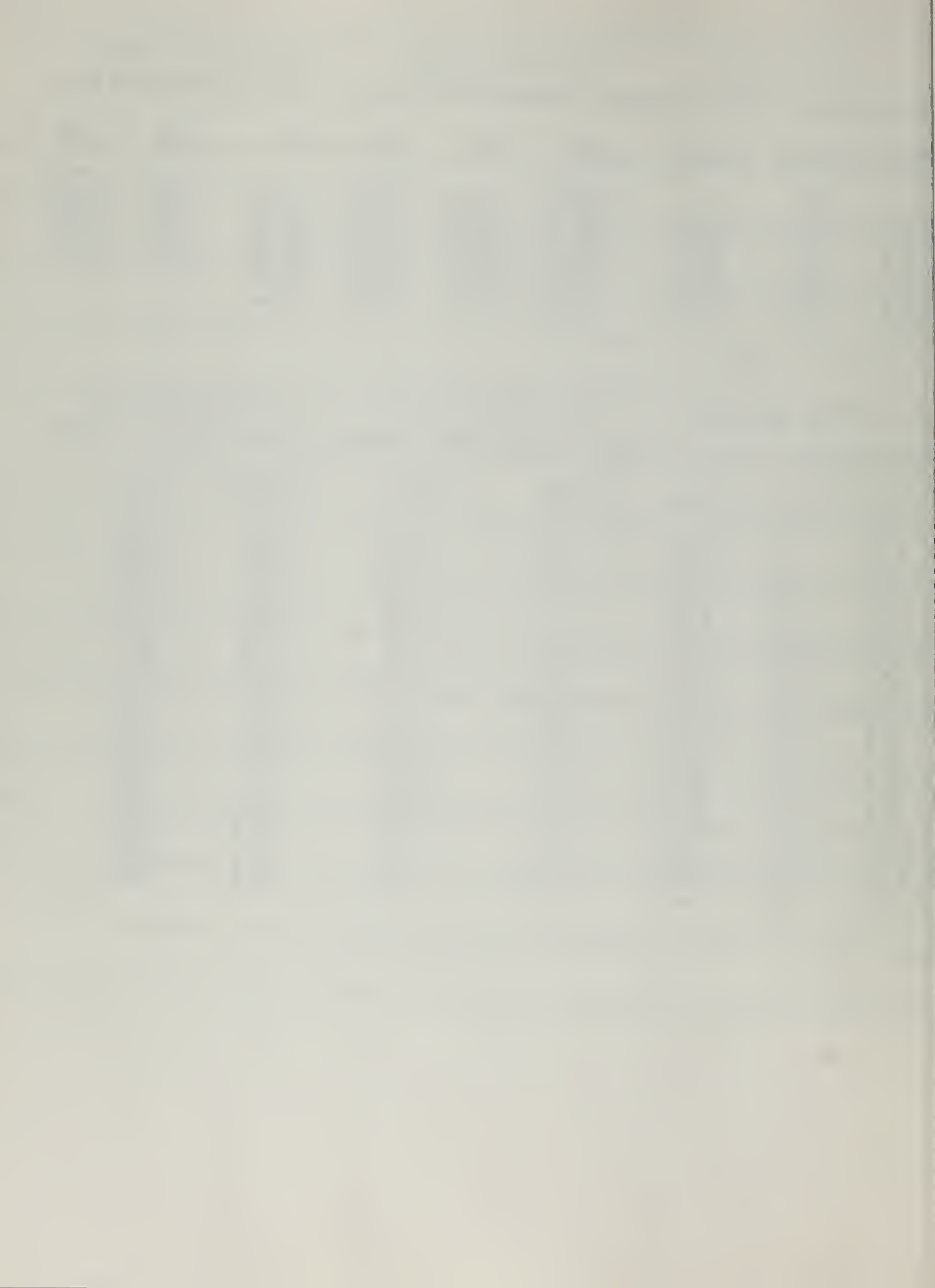
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2735

DATE 07/09/76 TIME 11:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	H-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	-0.0	2.6	2.6	180.
0.5	76.	2118.	-0.1	2.6	2.6	182.
1.0	152.	2194.	-0.5	2.4	2.5	167.
1.5	229.	2271.	-0.2	1.7	1.7	172.
2.0	305.	2347.	0.0	1.4	1.4	181.
2.5	381.	2423.	-1.1	3.0	3.2	161.
3.0	457.	2499.	-0.2	2.8	2.8	175.
3.5	535.	2577.	-0.9	3.2	3.3	164.
4.0	625.	2667.	-0.3	3.3	3.3	174.
4.5	716.	2758.	1.2	1.5	1.9	220.
5.0	796.	2838.	1.4	1.9	2.4	217.
5.5	873.	2915.	1.5	0.6	1.7	250.
6.0	949.	2991.	2.6	0.7	3.0	255.
6.5	1025.	3067.	2.4	1.6	2.9	236.
7.0	1108.	3150.	3.2	1.6	3.6	243.
7.5	1193.	3235.	4.6	0.7	4.6	261.
8.0	1269.	3311.	5.5	-0.5	5.5	275.
8.5	1347.	3389.	4.6	-0.7	4.7	279.
9.0	1435.	3477.	4.8	-0.7	4.9	278.
9.5	1519.	3561.	4.9	-0.1	4.9	271.
10.0	1597.	3639.	3.9	0.4	3.9	264.
10.5	1673.	3715.	4.8	1.0	4.9	258.
11.0	1749.	3791.	3.7	1.4	4.0	250.
11.5	1825.	3867.	4.6	1.1	4.7	250.
12.0	1901.	3943.	4.2	0.8	4.3	260.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2732

TE 07/11/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		22.30		0.0		0.5	180.
1.0	150	2192	21.70	-0.60	-1.3A	1.55	1.3	283.
2.0	300	2342	20.90	-0.80	-1.3A	1.55	1.3	153.
3.0	458.	2500.	19.80	-1.00	-1.3A	1.55	5.1	152.
3.3	500.	2542.	19.81	-0.09	-1.3A	1.55	3.9	157.
6.3	958.	3000.	17.40	-2.39	-1.57	1.35	4.1	177.
12.8	1958.	4000.	11.40	-6.01	-1.77	1.16	M	M
19.3	2958.	5000.	4.21	-7.20	-2.56	0.37	M	M

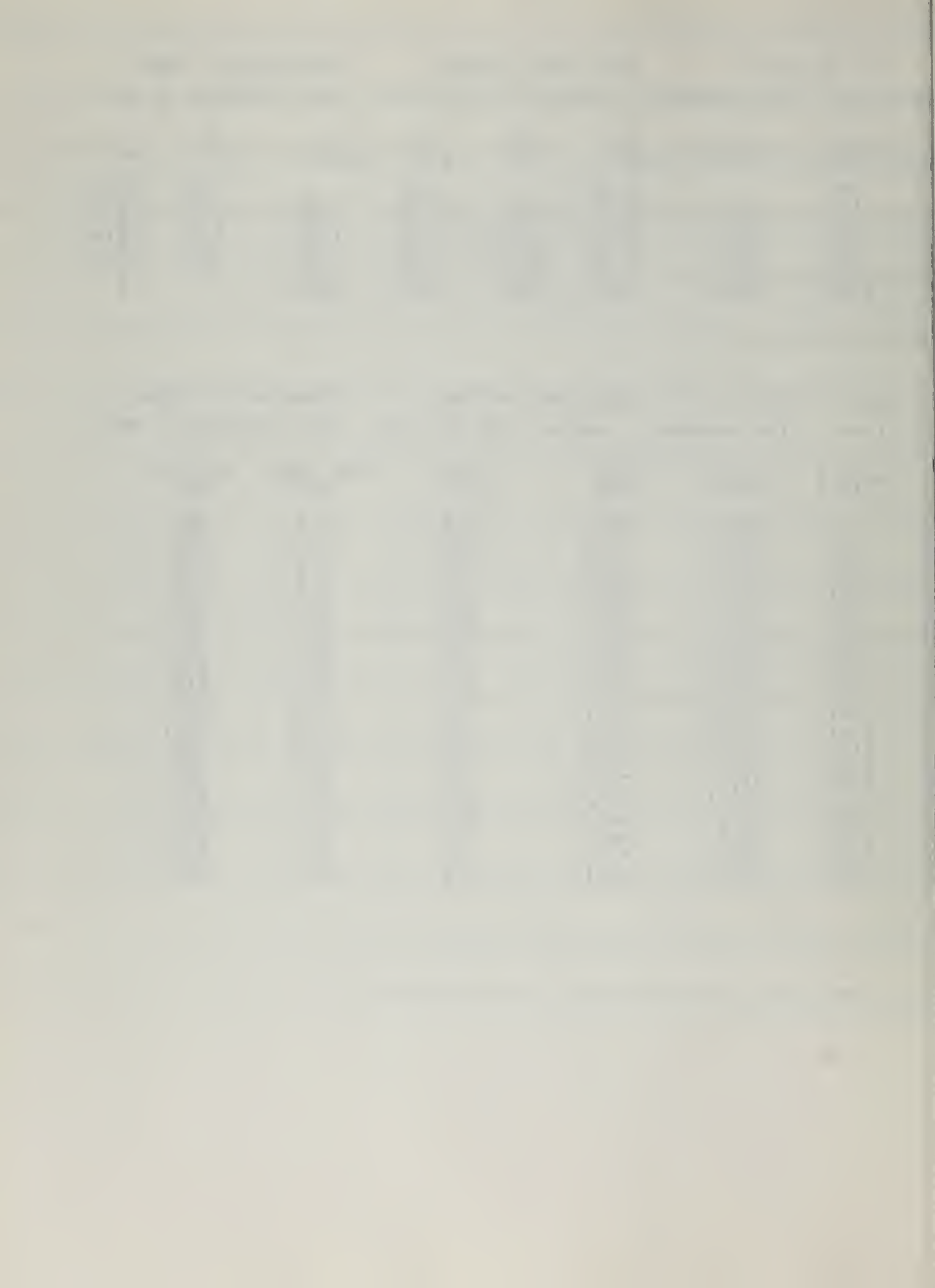
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2732

TE 07/11/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	-0.0	0.5	0.5	180.
0.5	76.	2118.	0.8	0.4	1.0	305.
1.0	152.	2194.	1.3	0.3	1.3	282.
1.5	229.	2271.	0.3	0.9	1.0	199.
2.0	305.	2347.	0.6	1.1	1.3	150.
2.5	381.	2423.	0.5	1.1	1.6	162.
3.0	457.	2499.	2.4	4.4	5.1	151.
3.5	533.	2575.	1.0	2.9	3.0	162.
4.0	610.	2652.	0.9	3.4	3.5	165.
4.5	686.	2728.	0.6	3.9	3.2	169.
5.0	762.	2804.	0.5	3.9	2.9	170.
5.5	838.	2880.	0.5	4.4	3.5	172.
6.0	914.	2956.	0.5	4.8	3.8	172.
6.5	991.	3033.	0.1	4.4	4.3	181.
7.0	1067.	3109.	0.0	4.4	4.3	180.
7.5	1143.	3185.	0.3	4.4	4.6	176.
8.0	1219.	3261.	0.7	4.4	4.8	172.
8.5	1295.	3337.	0.8	5.3	5.4	171.
9.0	1372.	3414.	0.5	5.3	5.3	174.
9.5	1448.	3490.	0.5	5.0	5.0	175.
10.0	1524.	3566.	0.5	6.0	5.1	174.
10.5	1600.	3642.	0.6	6.6	6.6	175.
11.0	1678.	3720.	0.5	6.4	6.4	175.
11.5	1754.	3796.	0.1	5.2	5.2	181.
12.0	1831.	3873.	0.8	6.6	4.6	170.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2724

DATE 07/11/76 TIME 11:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		26.00		0.0		1.5	180.
1.0	150	2192	25.30	-0.70	-1.38	1.55	1.9	211.
2.0	300	2342	24.70	-0.60	-2.16	0.76	2.8	209.
3.0	458.	2500.	23.00	-1.69	-3.94	-1.01	1.8	182.
3.2	500	2542.	22.71	-0.30	-3.94	-1.01	2.2	184.
5.4	958.	3000.	17.80	-4.88	-4.33	-1.40	2.8	149.
7.5	*1481	3523	13.00		-1.38	1.55		
10.6	1958.	4000.	11.80	-5.92	-2.16	0.76	5.6	150.
16.6	2958.	5000.	2.80	-9.10	-2.76	0.17	M	M
23.2	3958.	6000.	-3.40	-6.20	-1.77	1.16	M	M

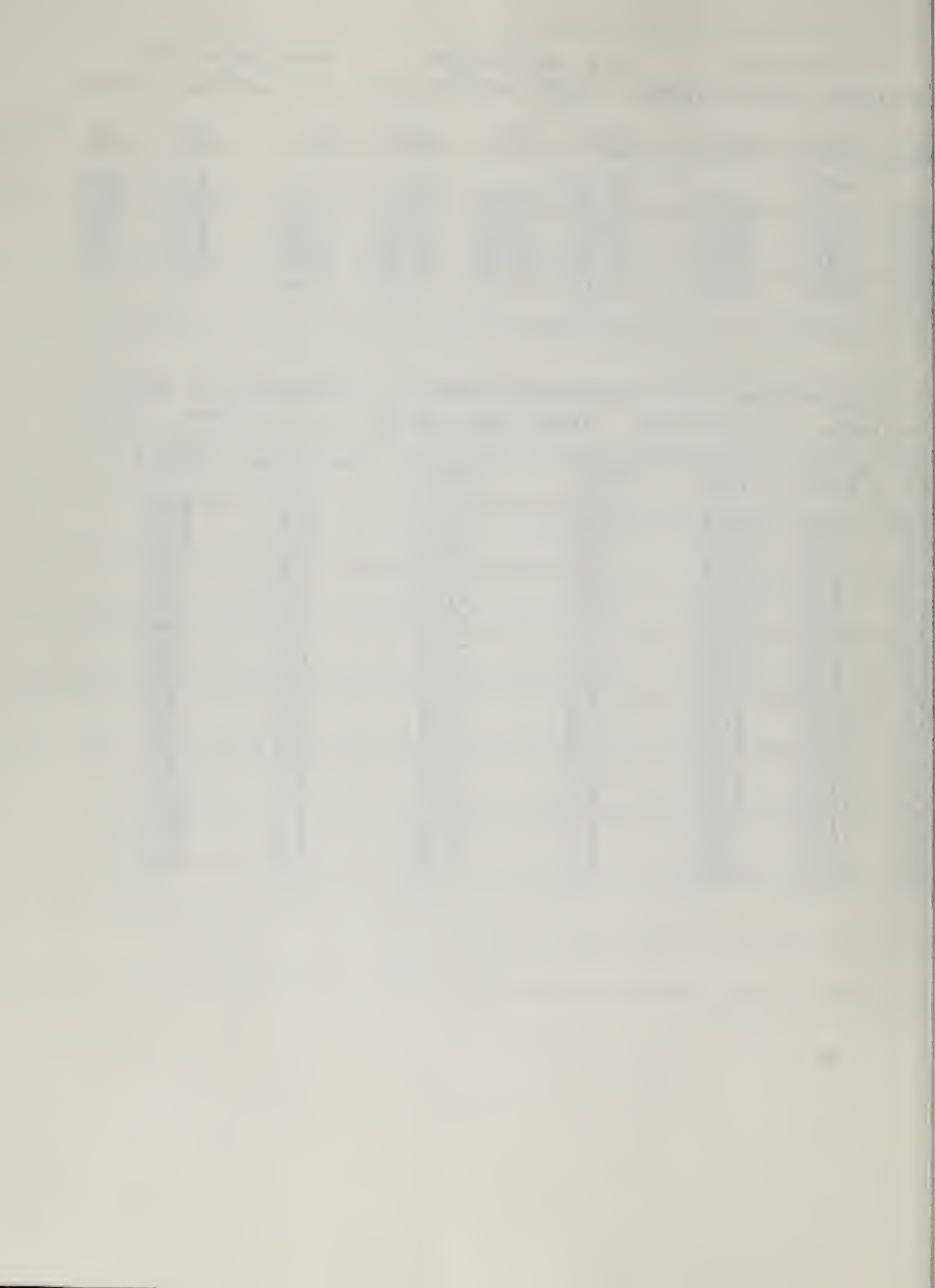
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2724

DATE 07/11/76 TIME 11:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	-0.0	1.5	1.5	180.
0.5	76.	2118.	0.1	-0.7	0.7	351.
1.0	152.	2194.	0.9	1.8	2.0	200.
1.5	229.	2271.	1.4	2.2	2.7	212.
2.0	305.	2347.	1.4	2.4	2.8	209.
2.5	381.	2423.	1.7	2.2	2.8	219.
3.0	463.	2505.	-0.0	1.7	1.7	179.
3.5	563.	2605.	-2.9	1.0	3.1	110.
4.0	668.	2710.	-3.1	1.0	3.2	108.
4.5	768.	2810.	-2.4	1.3	2.7	118.
5.0	863.	2905.	-2.4	1.1	2.7	115.
5.5	986.	3028.	-1.0	2.6	2.8	159.
6.0	1113.	3155.	-0.6	1.3	1.4	156.
6.5	1256.	3298.	0.1	2.6	2.6	182.
7.0	1396.	3438.	0.1	2.8	2.8	181.
7.5	1481.	3523.	-1.2	2.0	2.3	149.
8.0	1558.	3600.	-0.8	2.0	2.2	157.
8.5	1634.	3676.	-3.4	4.5	5.6	143.
9.0	1710.	3752.	-3.4	4.4	5.5	142.
9.5	1786.	3828.	-3.2	5.2	6.1	149.
10.0	1862.	3904.	-3.5	4.4	5.0	150.
10.5	1939.	3981.	-2.6	4.7	5.3	151.
11.0	2015.	4057.	-3.4	5.5	6.5	148.
11.5	2091.	4133.	-1.9	5.0	5.4	159.
12.0	2167.	4209.	-1.7	5.5	5.8	163.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2736

TE 07/13/76

TIME 12:00MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		24.20		0.0		3.1	360.
0.9	150.	2192.	22.35	-1.85	-3.90	-1.01	4.6	313.
1.5	300.	2342.	20.32	-2.04	-5.90	-2.98	5.6	285.
2.1	458.	2500.	18.00	-1.44	-6.80	-3.96	5.2	300.
2.2	500.	2542.	18.11	-0.77	-6.80	-3.96	3.6	304.
3.8	958.	3000.	14.00	-4.10	-2.36	0.57	2.2	247.
10.0	1958.	4000.	6.20	-7.81	-1.77	1.16	3.6	316.
16.2	2958.	5000.	-1.80	-8.00	-0.50	2.34		
22.7	3958.	6000.	-6.80	-5.00	-2.95	-0.02		

COL CH TRACT

ELEV 2042 METERS

SOUNDING ID 2736

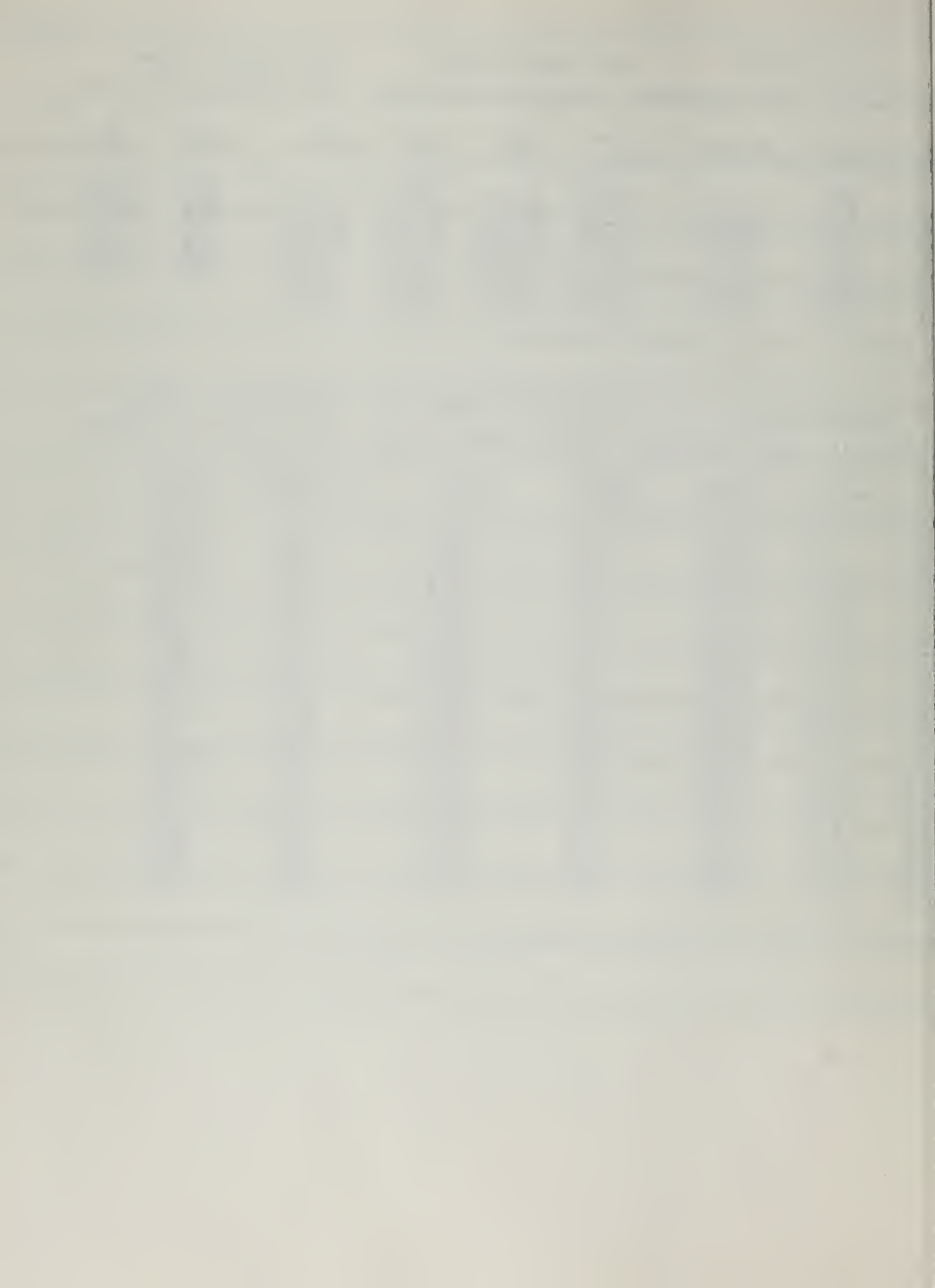
TE 07/13/76

TIME 12:00MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	-3.1	3.1	360.
0.5	76.	2118.	2.3	-3.0	3.8	322.
1.0	174.	2216.	3.8	-3.1	4.9	310.
1.5	286.	2328.	5.3	-1.3	5.5	283.
2.0	426.	2468.	5.7	-2.9	6.4	297.
2.5	576.	2618.	0.6	-0.5	0.8	311.
3.0	739.	2781.	11.0	-2.0	2.2	27.
3.5	886.	2930.	10.8	-3.0	3.1	15.
4.0	991.	3033.	0.1	-1.8	1.8	357.
4.5	1067.	3109.	0.5	-1.0	1.1	331.
5.0	1143.	3185.	0.6	-1.1	1.3	331.
5.5	1220.	3262.	0.8	-1.4	1.6	330.
6.0	1303.	3345.	0.4	-2.4	2.4	9.
6.5	1395.	3437.	0.8	-1.9	2.1	338.
7.0	1476.	3518.	0.2	-1.9	1.9	7.
7.5	1554.	3596.	2.2	-2.3	3.2	316.
8.0	1641.	3683.	2.3	-2.9	3.7	322.
8.5	1736.	3778.	4.7	-3.8	6.1	309.
9.0	1812.	3854.	2.7	-2.4	3.6	311.
9.5	1889.	3931.	2.6	-2.8	4.0	315.
10.0	1965.	4007.	2.5	-2.6	3.6	310.
10.5	2041.	4083.	2.9	-3.0	4.2	316.
11.0	2117.	4159.	3.8	-2.8	4.7	308.
11.5	2193.	4235.	3.2	-3.0	4.4	314.
12.0	2270.	4312.	1.8	-0.9	2.0	298.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2730

DATE 07/15/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		17.21		0.0		0.5	315.
1.0	150.	2192.	16.77	-0.45	-0.35	2.58	2.9	293.
2.0	300.	2342.	16.95	0.18	0.18	3.10	1.5	288.
3.0	458.	2500.	16.95	0.0	-0.18	2.75	1.1	342.
3.3	500.	2542.	16.95	0.0	-0.18	2.75	1.4	341.
6.3	958.	3000.	15.42	-1.52	-1.78	1.15	4.7	217.
12.8	1958.	4000.	8.64	-6.79	-2.20	0.73	M	M
19.2	2958.	5000.	0.24	-8.40	-3.39	-0.47	M	M

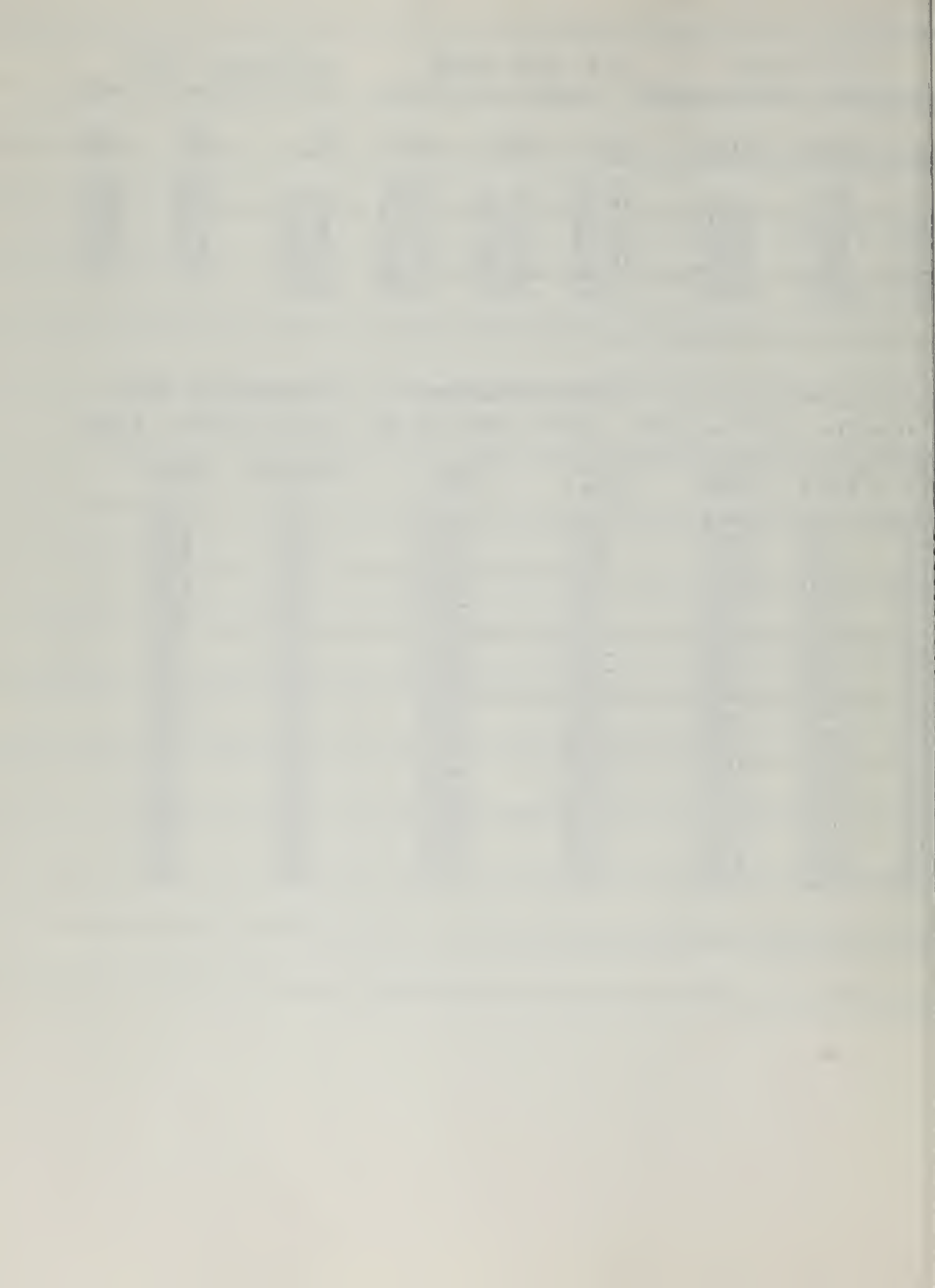
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2730

DATE 07/15/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.4	-0.4	0.5	315.
0.5	76.	2118.	2.6	-1.0	2.8	292.
1.0	152.	2194.	2.7	-1.1	2.9	293.
1.5	229.	2271.	2.4	-0.7	2.5	287.
2.0	305.	2347.	1.4	-0.4	1.4	288.
2.5	381.	2423.	0.4	-0.9	1.0	337.
3.0	457.	2499.	0.3	-1.1	1.1	342.
3.5	533.	2575.	0.5	-1.5	1.5	340.
4.0	610.	2652.	-0.7	-1.6	1.7	23.
4.5	686.	2728.	-0.9	-1.0	1.4	41.
5.0	762.	2804.	-1.4	-1.1	1.8	52.
5.5	838.	2880.	-2.7	-2.2	3.5	51.
6.0	914.	2956.	-0.8	-1.5	1.7	29.
6.5	991.	3033.	0.3	-7.0	7.0	358.
7.0	1067.	3109.	-4.6	-5.2	6.9	41.
7.5	1143.	3185.	-1.2	-6.3	6.4	10.
8.0	1219.	3261.	-1.2	-5.5	5.6	12.
8.5	1295.	3337.	-1.5	-4.9	5.1	17.
9.0	1372.	3414.	-0.9	-4.8	4.9	10.
9.5	1448.	3490.	-0.4	-3.3	3.3	6.
10.0	1525.	3567.	-1.7	-4.0	4.3	23.
10.5	1601.	3643.	0.2	-3.8	3.8	357.
11.0	1677.	3719.	0.7	-3.8	3.8	10.
11.5	1753.	3795.	-0.3	-3.0	3.1	6.
12.0	1830.	3872.	0.5	-3.4	3.5	352.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2728

E 07/15/76 TIME 11:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		20.64		0.0		3.1	270.
1.0	150	2192	19.40	-1.24	-1.23	1.70	3.5	282.
2.0	300	2342	18.86	-10.54	-1.23	1.69	2.0	333.
3.0	458	2500	17.69	-10.98	-1.42	1.51	3.6	334.
4.0	500	2542	17.70	-10.18	-1.42	1.51	3.7	149.
5.0	958	3000	15.24	-2.46	-1.98	0.95	4.7	26.
6.0	1958	4000	8.96	-6.28	-1.47	1.46	M	M
7.0	2958	5000	0.90	-8.06	-2.46	0.47	M	M

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2728

E 07/15/76 TIME 11:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	3.1	0.0	3.1	270.
0.5	76.	2118.	2.5	0.5	2.5	260.
1.0	152.	2194.	3.5	0.8	3.5	283.
1.5	229.	2271.	1.5	-1.5	2.2	315.
2.0	305.	2347.	0.9	-1.8	2.0	334.
2.5	381.	2423.	2.2	-2.7	3.5	321.
3.0	457.	2499.	1.4	-3.3	3.6	338.
3.5	533.	2575.	0.1	-3.8	3.8	1.
4.0	610.	2652.	0.3	-3.4	3.4	6.
4.5	686.	2728.	1.2	-4.1	4.3	16.
5.0	762.	2804.	4.2	-6.7	7.9	32.
5.5	838.	2880.	2.0	-5.0	5.3	22.
6.0	914.	2956.	2.0	-4.4	4.8	25.
6.5	991.	3033.	2.1	-4.2	4.7	27.
7.0	1067.	3109.	2.0	-3.6	4.1	29.
7.5	1143.	3185.	2.3	-3.8	4.4	31.
8.0	1219.	3261.	1.6	-2.5	3.0	32.
8.5	1295.	3337.	1.1	-2.5	2.7	33.
9.0	1372.	3414.	0.7	-2.3	2.4	17.
9.5	1448.	3490.	0.1	-1.9	1.9	2.
10.0	1524.	3566.	0.0	-2.4	2.4	0.
10.5	1600.	3642.	0.3	-2.2	2.2	35.
11.0	1676.	3718.	0.3	-2.7	2.8	37.
11.5	1753.	3795.	1.6	-3.2	3.5	34.
12.0	1829.	3871.	1.2	-3.0	4.0	34.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2799

TE 07/17/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		21.70		0.0		0.0	0.
0.5	* 76	2118	21.79		-3.90	-1.06		
0.8	150	2192	19.82	-1.88	-6.26	-3.33	2.6	284.
1.4	300	2342	18.65	-1.17	-3.85	-0.93	0.9	319.
2.1	458.	2500.	15.92	-1.76	-6.03	-3.10	0.7	297.
2.2	500	2542	16.02	-0.87	-6.03	-3.10	0.9	281.
3.9	958.	3000.	11.91	-4.10	-5.23	-2.31	1.2	200.
10.0	1958.	4000.					1.4	192.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2799

TE 07/17/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	2.6	-1.0	2.8	291.
1.0	191.	2233.	2.4	-0.4	2.5	280.
1.5	324.	2366.	0.3	-0.5	0.6	328.
2.0	433.	2475.	0.4	-0.3	0.5	307.
2.5	567.	2609.	1.3	0.3	1.3	256.
3.0	716.	2758.	1.8	0.2	1.8	264.
3.5	848.	2890.	0.6	1.0	1.1	211.
4.0	985.	3027.	0.4	1.1	1.2	198.
4.5	1105.	3147.	0.0	0.6	0.6	184.
5.0	1189.	3231.	1.6	0.8	1.8	244.
5.5	1265.	3307.	0.4	0.5	0.7	219.
6.0	1341.	3383.	1.1	0.1	1.1	264.
6.5	1417.	3459.	0.2	0.6	0.6	202.
7.0	1494.	3536.	0.1	0.4	0.4	202.
7.5	1570.	3612.	0.7	1.2	1.4	210.
8.0	1646.	3688.	0.2	0.6	0.7	197.
8.5	1722.	3764.	-0.3	0.8	0.9	158.
9.0	1798.	3840.	-0.4	0.9	1.0	207.
9.5	1875.	3917.	0.1	1.2	1.2	173.
10.0	1951.	3993.	0.3	1.3	1.4	194.
10.5	2027.	4069.	0.1	2.0	2.0	182.
11.0	2103.	4145.	0.2	1.6	1.6	186.
11.5	2179.	4221.	0.0	2.2	2.2	181.
12.0	2256.	4298.	-0.2	1.5	1.5	173.
12.5	2332.	4374.	0.3	1.6	1.6	191.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2727

DATE 07/17/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		24.31		0.0		M	M
0.8	150	2192	22.09	-2.22	-3.44	-0.51	3.2	222.
1.6	300	2342	20.47	-1.62	-5.22	-2.30	1.4	238.
2.3	458.	2500.	18.61	-1.14	-4.90	-1.98	2.0	224.
2.4	500	2542.	18.63	-0.69	-4.90	-1.98	1.8	224.
4.0	958.	3000.	12.83	-5.03	-5.95	-3.02	1.3	262.
9.3	1958.	4000.	5.11	-8.48	-3.71	-0.79	3.5	141.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2727

DATE 07/17/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2118.	1.7	2.0	2.6	221.
1.0	183.	2225.	2.3	2.6	3.4	222.
1.5	284.	2326.	1.1	0.6	1.3	240.
2.0	394.	2436.	1.7	1.7	2.4	224.
2.5	520.	2562.	1.2	1.2	1.7	225.
3.0	649.	2691.	1.7	1.1	2.1	237.
3.5	791.	2833.	1.7	0.3	1.7	258.
4.0	951.	2993.	1.3	0.1	1.3	267.
4.5	1101.	3143.	-0.2	0.6	0.6	159.
5.0	1239.	3281.	4.0	4.9	6.3	219.
5.5	1349.	3391.	2.8	3.6	4.5	218.
6.0	1427.	3469.	1.1	1.7	2.0	146.
6.5	1503.	3545.	-0.6	0.7	0.9	141.
7.0	1579.	3621.	-1.5	1.1	1.8	125.
7.5	1655.	3697.	-0.5	1.6	1.6	161.
8.0	1731.	3773.	-0.5	1.5	1.6	161.
8.5	1812.	3854.	-1.0	2.2	2.4	156.
9.0	1898.	3940.	-2.3	4.3	4.8	152.
9.5	1995.	4037.	-2.0	1.9	2.7	134.
10.0	2084.	4126.	-1.1	1.9	2.2	151.
10.5	2161.	4203.	-1.6	1.6	2.3	136.
11.0	2237.	4279.	-1.4	0.4	1.4	106.
11.5	2315.	4357.	-2.2	3.2	3.9	146.
12.0	2396.	4438.	-2.0	3.9	4.4	153.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 1424

07/19/76

TIME 06:30MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		14.10		0.0		0.0	0.
0	150	2192	13.47	-0.63	-0.18	2.75	0.9	309.
00	300	2342	12.74	-0.73	-2.88	0.05	1.2	303.
00	458.	2500.	11.27	-1.24	-2.35	0.57	1.4	309.
00	500	2542.	11.28	-0.22	-2.35	0.57	1.3	306.
00	958.	3000.	8.58	-2.68	-2.20	0.73	1.1	276.
00	1958.	4000.	1.02	-7.26	-5.08	2.15	2.3	238.
00	2958.	5000.	-7.12	-8.45	0.0	2.93	M	M

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 1424

07/19/76

TIME 06:30MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0	0.	2042.	0.0	0.0	0.0	0.
05	76.	2118.	0.7	-0.3	0.8	295.
05	152.	2194.	0.7	-0.6	0.9	310.
05	229.	2271.	0.9	-0.5	1.1	299.
00	305.	2347.	1.0	-0.7	1.2	303.
05	381.	2423.	1.0	-0.7	1.2	307.
05	457.	2499.	1.1	-0.9	1.4	309.
05	533.	2575.	1.1	-0.7	1.3	304.
00	610.	2652.	1.0	-0.6	1.1	303.
05	686.	2728.	1.4	-0.3	1.5	284.
05	762.	2804.	1.0	-0.4	1.1	289.
05	839.	2881.	1.3	-0.3	1.4	281.
05	916.	2958.	1.1	-0.2	1.1	280.
05	992.	3034.	1.2	0.0	1.2	272.
05	1072.	3114.	1.9	1.0	2.2	244.
05	1148.	3190.	2.0	1.5	2.5	233.
05	1224.	3266.	2.1	1.1	2.1	272.
05	1300.	3342.	2.5	2.0	3.2	232.
05	1377.	3419.	2.9	1.4	3.2	245.
05	1453.	3495.	2.4	0.8	2.5	250.
05	1531.	3573.	2.8	1.0	2.9	251.
05	1637.	3679.	3.3	1.6	3.7	244.
05	1716.	3758.	3.0	1.7	3.4	241.
05	1792.	3834.	2.2	2.2	3.1	225.
05	1868.	3910.	1.6	2.8	2.7	215.
05	1947.	3989.	1.7	4.8	1.9	244.
05	2044.	4086.	1.1	4.6	4.8	194.
05	2147.	4189.	1.5	3.0	3.3	207.
05	2223.	4265.	0.8	4.3	4.3	191.
05	2299.	4341.	1.4	3.2	3.5	204.

廣東通志

卷之四十五

一	二	三	四	五	六	七	八	九	十
十一	十二	十三	十四	十五	十六	十七	十八	十九	二十
二十一	二十二	二十三	二十四	二十五	二十六	二十七	二十八	二十九	三十
三十一	三十二	三十三	三十四	三十五	三十六	三十七	三十八	三十九	四十
四十一	四十二	四十三	四十四	四十五	四十六	四十七	四十八	四十九	五十
五十一	五十二	五十三	五十四	五十五	五十六	五十七	五十八	五十九	六十
六十一	六十二	六十三	六十四	六十五	六十六	六十七	六十八	六十九	七十
七十一	七十二	七十三	七十四	七十五	七十六	七十七	七十八	七十九	八十
八十一	八十二	八十三	八十四	八十五	八十六	八十七	八十八	八十九	九十
九十一	九十二	九十三	九十四	九十五	九十六	九十七	九十八	九十九	一百

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2309

DATE 07/19/76

TIME 12:00MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		21.44		0.0		0.0	0.
0.8	150	2192	19.22	-2.22	-3.67	-0.74	0.9	276.
1.6	300	2342	17.77	-1.45	-3.35	-0.42	1.2	249.
2.6	458.	2500.	16.01	-1.30	-2.31	0.62	1.7	250.
2.8	500	2542.	16.03	-0.44	-2.31	0.62	1.5	249.
5.8	958.	3000.	12.83	-3.20	-0.90	2.03	1.2	212.
11.5	*1858	3900	7.46		-3.14	-0.21		
12.1	1958.	4000.	5.39	-7.06	-2.97	-0.04	3.5	238.
18.3	2958.	5000.	-1.86	-7.63	-1.90	1.03		

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2309

DATE 07/19/76

TIME 12:00MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	0.6	-0.1	0.6	280.
1.0	191.	2233.	1.1	-0.1	1.1	274.
1.5	282.	2324.	1.2	-0.4	1.2	249.
2.0	365.	2407.	1.0	0.4	1.1	247.
2.5	446.	2488.	1.7	0.6	1.8	250.
3.0	522.	2564.	1.2	0.5	1.3	249.
3.5	598.	2640.	1.6	0.7	1.8	248.
4.0	677.	2719.	1.5	0.9	1.7	239.
4.5	753.	2795.	1.0	1.0	1.4	227.
5.0	832.	2874.	0.6	1.0	1.2	209.
5.5	908.	2950.	0.4	1.1	1.1	201.
6.0	985.	3027.	0.8	1.0	1.3	219.
6.5	1061.	3103.	1.1	1.4	1.8	216.
7.0	1137.	3179.	1.3	2.0	2.4	213.
7.5	1213.	3255.	1.2	1.2	1.7	226.
8.0	1297.	3339.	1.6	1.5	2.2	227.
8.5	1392.	3434.	2.7	2.1	3.4	231.
9.0	1474.	3516.	2.1	1.6	2.7	234.
9.5	1550.	3592.	1.0	1.5	2.5	232.
10.0	1630.	3672.	2.2	1.4	2.7	238.
10.5	1707.	3749.	2.4	1.8	3.0	233.
11.0	1783.	3825.	2.0	1.5	2.5	233.
11.5	1859.	3901.	2.5	1.9	3.1	233.
12.0	1939.	3981.	2.0	1.9	3.5	237.
12.5	2038.	4080.	3.1	1.8	3.6	240.



COL CR TRACT

ELEV 2042 METERS

SOUNDING ID 2063

07/21/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		16.45		0.0		0.0	0.
0.0	150	2192	15.83	-0.62	-2.30	0.63	1.6	248.
2.0	300	2342	14.65	-1.18	-2.49	0.44	1.6	245.
3.0	458.	2500.	12.83	-1.71	-1.26	1.67	0.7	197.
3.3	500	2542.	12.84	-0.10	-1.26	1.67	0.6	171.
5.3	958.	3000.	9.81	-3.03	-1.82	1.11	0.8	197.

COL CR TRACT

ELEV 2042 METERS

SOUNDING ID 2063

07/21/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	1.0	0.5	1.1	242.
1.0	152.	2194.	1.5	0.6	1.6	248.
1.5	229.	2271.	1.4	0.6	1.5	245.
2.0	305.	2347.	1.4	0.6	1.6	245.
2.5	381.	2423.	0.4	0.7	0.9	210.
3.0	458.	2500.	0.3	0.7	0.7	197.
3.5	534.	2576.	0.3	0.5	0.6	151.
4.0	610.	2652.	0.5	0.6	0.8	216.
4.5	686.	2728.	0.4	0.5	0.6	216.
5.0	762.	2804.	1.5	0.2	1.5	277.
5.5	839.	2881.	0.9	1.1	0.9	266.
6.0	915.	2957.	0.1	0.3	0.4	164.
6.5	991.	3033.	0.3	0.9	1.2	223.
7.0	1067.	3109.	1.2	0.3	1.2	283.
7.5	1143.	3185.	0.8	1.1	0.9	276.
8.0	1220.	3262.	0.2	0.2	0.2	261.
8.5	1296.	3338.	0.0	0.2	0.2	175.
9.0	1372.	3414.	0.1	0.3	0.3	201.
9.5	1448.	3490.	0.4	0.3	0.4	301.
10.0	1524.	3566.	0.5	0.3	0.5	287.
10.5	1602.	3644.	0.7	0.6	0.9	307.
11.0	1678.	3720.	1.2	0.3	1.3	282.
11.5	1755.	3797.	1.6	0.1	1.6	278.
12.0	1831.	3873.	1.9	0.1	1.9	274.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2312

TE 07/21/76 TIME 12:00MST - ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		23.53		0.0		0.0	0.
0.9	150	2192	21.31	-2.22	-2.60	0.33	1.9	50.
1.8	300	2342	19.56	-1.75	-3.66	-0.74	1.7	25.
2.6	458.	2500.	18.27	-1.30	-3.34	-0.42	1.6	36.
2.9	? 500	2542	17.74	-0.53	-3.34	-0.42	1.6	31.
5.7	958.	?3000.	13.74	-3.99	-3.06	-0.13	2.3	173.
11.9	1958.	4000.	3.79	-9.95	-2.43	0.50	2.0	305.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2312

TE 07/21/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	-1.5	-0.4	1.6	74.
1.0	177.	2219.	-1.3	-1.5	2.0	41.
1.5	254.	2296.	-0.5	-1.6	1.7	18.
2.0	343.	2385.	-0.9	-1.5	1.8	30.
2.5	434.	2476.	-1.0	-1.3	1.6	39.
3.0	521.	2563.	-0.8	-1.4	1.6	28.
3.5	606.	2648.	0.1	-1.6	1.6	57.
4.0	682.	2724.	0.4	-1.1	1.1	42.
4.5	758.	2800.	0.1	-1.3	1.3	55.
5.0	842.	2884.	0.4	-1.0	1.1	37.
5.5	921.	2963.	-0.0	-2.0	2.0	1.
6.0	997.	3039.	0.2	-2.6	2.6	56.
6.5	1077.	3119.	0.2	-2.1	2.1	54.
7.0	1153.	3195.	0.8	-1.9	2.1	36.
7.5	1230.	3272.	1.5	-0.6	1.6	92.
8.0	1308.	3350.	1.2	-0.6	1.4	97.
8.5	1386.	3428.	1.9	-0.0	1.9	71.
9.0	1463.	3505.	1.1	-0.3	1.1	83.
9.5	1539.	3581.	2.1	-0.4	2.1	81.
10.0	1615.	3657.	1.4	0.2	1.4	60.
10.5	1693.	3735.	1.0	-1.4	1.7	23.
11.0	1778.	3820.	1.4	-1.5	2.0	17.
11.5	1889.	3931.	0.7	-0.7	1.0	14.
12.0	1977.	4019.	1.9	-1.2	2.3	03.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 1746

DATE 07/23/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		18.43		0.0		0.0	0.
1.0	150.	2192.	17.36	-1.07	-3.53	-0.60	1.8	140.
1.9	300.	2342.	16.20	-1.17	-1.95	0.98	1.9	135.
3.0	458.	2500.	15.10	-1.09	-1.25	1.68	1.6	120.
3.2	500.	2542.	14.92	-0.18	-0.89	2.04	1.9	127.
6.2	958.	3000.	12.37	-2.19	-1.98	0.94	3.5	146.
12.8	1958.	4000.	5.12	-7.62	-2.79	0.14	M	M
19.3	2958.	5000.	-2.05	-7.17	-1.52	1.41	M	M

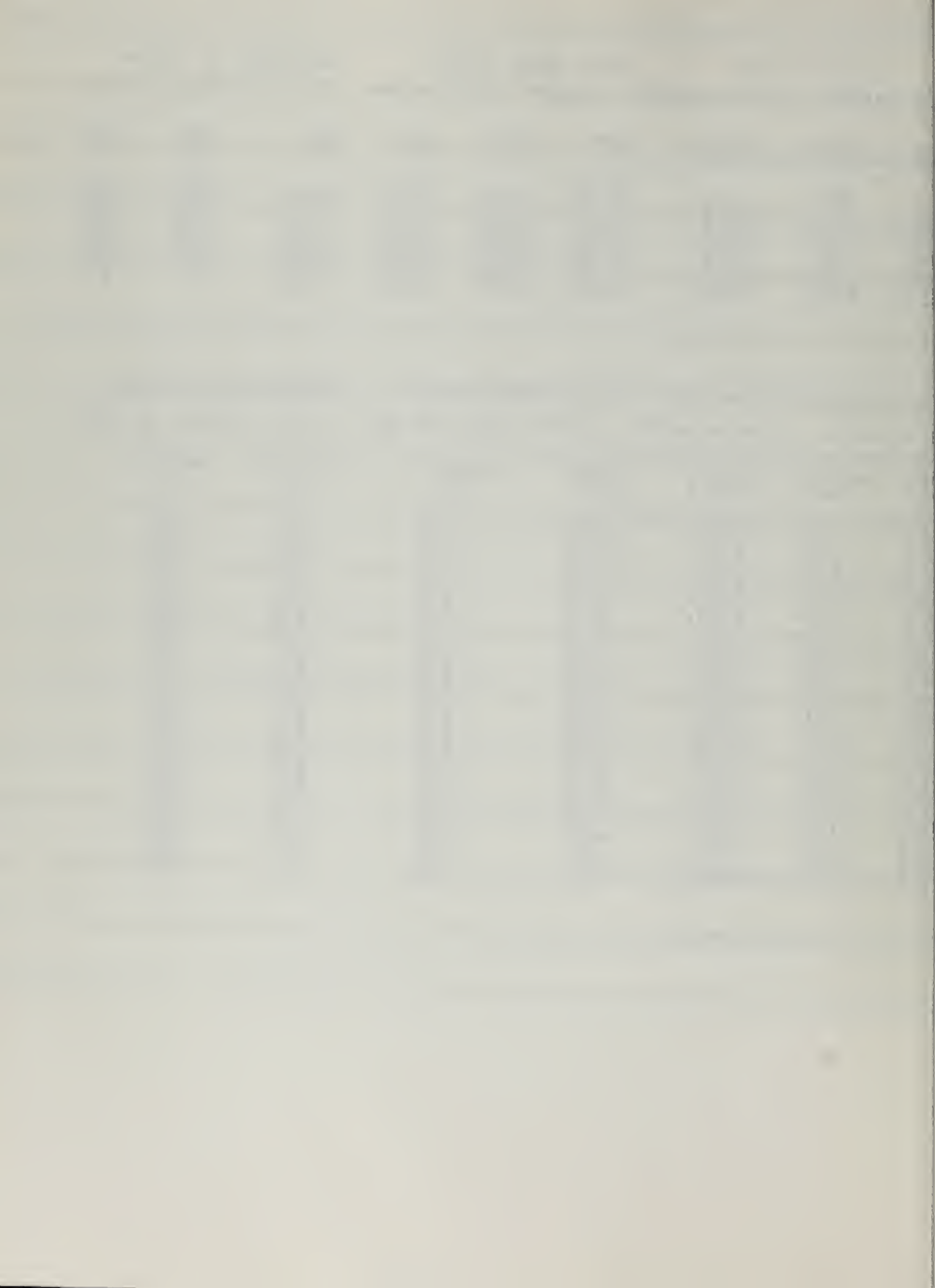
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 1746

DATE 07/23/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	-0.8	1.2	1.5	147.
1.0	152.	2194.	-1.1	1.4	1.8	140.
1.5	235.	2277.	-1.3	1.7	2.2	142.
2.0	311.	2353.	-1.4	1.3	1.9	134.
2.5	388.	2430.	-1.2	1.0	1.6	129.
3.0	464.	2506.	-1.4	0.8	1.6	119.
3.5	540.	2582.	-1.5	1.6	2.2	136.
4.0	616.	2658.	-1.7	1.6	2.4	134.
4.5	692.	2734.	-1.8	1.8	2.5	135.
5.0	769.	2811.	-2.2	2.2	3.1	135.
5.5	845.	2887.	-1.8	2.2	3.8	141.
6.0	921.	2963.	-1.7	2.6	3.1	147.
6.5	997.	3039.	-2.3	3.2	4.0	144.
7.0	1073.	3115.	-1.9	3.1	3.6	148.
7.5	1150.	3192.	-2.1	2.5	3.3	140.
8.0	1226.	3268.	-1.9	2.3	3.0	141.
8.5	1302.	3344.	-1.9	1.7	2.5	133.
9.0	1378.	3420.	-1.8	1.6	2.4	131.
9.5	1454.	3496.	-1.8	1.5	2.3	130.
10.0	1532.	3574.	-1.9	1.5	2.4	128.
10.5	1612.	3654.	-2.1	1.1	2.4	118.
11.0	1688.	3730.	-2.2	0.5	2.3	102.
11.5	1764.	3806.	-2.1	1.4	2.5	124.
12.0	1841.	3883.	-3.2	1.1	3.4	109.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2216

DATE 07/23/76

TIME 12:00MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		22.84		0.0		0.0	0.
1.0	150	2192	21.88	-0.96	-1.03	1.89	2.1	88.
2.0	300	2342	21.00	-0.88	-2.94	-0.02	1.6	87.
3.0	458.	2500.	19.14	-1.58	-1.92	1.00	1.7	88.
3.3	500	2542.	19.16	-0.26	-1.92	1.00	2.3	93.
6.3	958.	3000.	15.74	-3.41	-2.31	0.62	2.3	80.
12.8	1958.	4000.	9.05	-6.70	-1.65	1.28	M	M

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2216

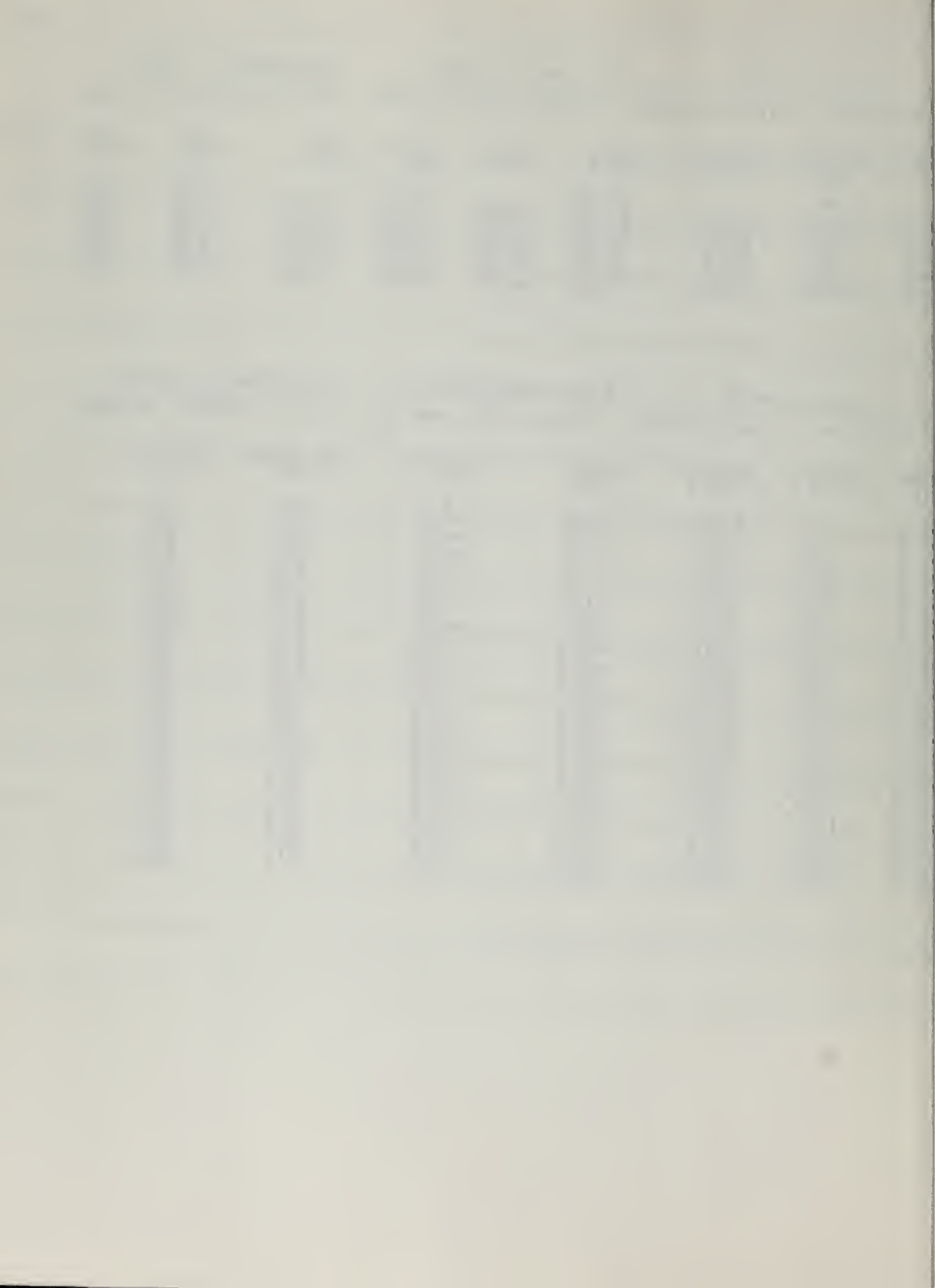
DATE 07/23/76

TIME 12:00MST

ASCENT RATE 500 FPM

DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	0.0	0.0	0.0	0.
0.5	76.	2118.	-2.0	-0.1	2.0	86.
1.0	152.	2194.	-2.1	-0.1	2.1	88.
1.5	229.	2271.	-1.8	-0.1	1.8	87.
2.0	305.	2347.	-1.6	-0.1	1.6	87.
2.5	381.	2423.	-2.3	-0.2	2.3	95.
3.0	457.	2499.	-1.7	-0.1	1.7	88.
3.5	533.	2575.	-2.7	-0.3	2.7	97.
4.0	610.	2652.	-3.4	-0.2	3.4	87.
4.5	686.	2728.	-3.4	-0.3	3.4	95.
5.0	762.	2804.	-3.2	-0.3	3.2	95.
5.5	838.	2880.	-2.5	-0.1	2.5	87.
6.0	914.	2956.	-3.3	-0.0	3.3	91.
6.5	991.	3033.	-1.5	-0.5	1.6	72.
7.0	1067.	3109.	-2.2	-0.7	2.3	73.
7.5	1143.	3185.	-2.3	-0.6	2.3	75.
8.0	1219.	3261.	-0.8	-0.2	2.4	20.
8.5	1295.	3337.	-0.8	-0.6	2.7	19.
9.0	1372.	3414.	-1.2	-0.6	2.3	32.
9.5	1448.	3490.	-1.2	-0.5	2.8	26.
10.0	1524.	3566.	-1.6	-0.8	2.4	41.
10.5	1600.	3642.	-1.7	-0.8	2.5	44.
11.0	1676.	3718.	-1.3	-2.4	2.7	28.
11.5	1753.	3795.	-1.3	-1.4	2.1	38.
12.0	1829.	3871.	-0.6	-1.3	1.4	26.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2310

TE 07/25/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		17.59		0.0		5.1	315.
1.0	150	2192	16.35	-1.22	-2.94	-0.01	2.5	252.
1.8	300	2342	14.24	-2.12	-5.07	-2.14	4.0	254.
2.4	458.	2500.	12.80	-1.41	-5.10	-2.17	5.2	254.
2.6	500	2542.	12.39	-0.44	-4.42	-1.50	5.5	255.
4.5	958.	3000.	8.19	-4.20	-3.96	-1.03	6.1	268.
10.4	1958.	4000.	0.77	-7.43	0.56	3.48	1.2	246.
16.9	2958.	5000.	-3.59	-4.36	-0.94	1.99	M	M

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2310

TE 07/25/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2042.	3.6	3.6	5.1	315.
0.5	76.	2118.	3.2	0.3	3.2	265.
1.0	152.	2194.	2.4	0.8	2.5	252.
1.5	239.	2281.	3.1	0.9	3.2	254.
2.0	356.	2398.	4.6	1.3	4.8	254.
2.5	481.	2523.	5.0	1.5	5.3	254.
3.0	606.	2648.	5.5	0.9	5.6	252.
3.5	721.	2763.	5.6	0.1	5.6	269.
4.0	836.	2878.	5.0	0.1	5.0	271.
4.5	964.	3006.	6.1	0.2	6.1	268.
5.0	1057.	3099.	3.5	0.1	3.5	272.
5.5	1139.	3181.	1.8	0.3	1.8	278.
6.0	1215.	3257.	1.3	0.4	1.4	289.
6.5	1291.	3333.	1.7	0.4	1.7	285.
7.0	1368.	3410.	2.0	0.6	3.0	258.
7.5	1454.	3496.	3.0	0.8	4.0	259.
8.0	1563.	3605.	2.9	0.7	3.0	256.
8.5	1654.	3696.	0.8	0.7	1.1	227.
9.0	1739.	3781.	0.0	0.2	0.2	191.
9.5	1815.	3857.	2.7	0.0	2.7	270.
10.0	1891.	3933.	0.1	0.1	0.1	331.
10.5	1968.	4010.	1.1	0.8	1.4	233.
11.0	2044.	4086.	0.1	0.9	0.9	185.
11.5	2120.	4162.	0.9	0.6	1.1	238.
12.0	2196.	4238.	0.0	0.1	0.1	176.



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2317

E 07/25/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		21.52		0.0		5.1	225.
1.0	150	2192	20.39	-1.14	-3.48	-0.55	2.5	183.
1.8	300	2342	18.48	-1.90	-3.84	-0.91	3.4	193.
2.6	458	2500					3.5	204.
2.8	500	2542					3.4	201.
5.2	958	3000					1.1	179.
0.3	1958	4000					1.8	284.

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2317

E 07/25/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	2042.	3.6	3.6	5.1	225.
0.5	76.	2118.	0.0	2.3	2.5	179.
1.0	152.	2194.	0.1	2.5	2.5	183.
1.5	228.	2270.	0.3	2.4	2.4	188.
2.0	304.	2346.	1.2	3.9	4.1	197.
2.5	380.	2422.	1.5	3.3	4.1	197.
3.0	456.	2498.	1.0	3.1	3.6	205.
3.5	532.	2574.	1.0	1.8	3.3	198.
4.0	608.	2650.	0.1	1.8	1.8	184.
4.5	684.	2726.	0.2	1.9	1.9	186.
5.0	760.	2802.	0.1	1.7	1.9	186.
5.5	836.	2878.	0.1	1.7	1.7	182.
6.0	912.	2954.	0.0	1.1	1.1	178.
6.5	988.	3030.	0.0	1.1	1.1	180.
7.0	1064.	3106.	0.0	0.9	1.0	180.
7.5	1140.	3182.	0.2	0.9	0.9	193.
8.0	1216.	3258.	0.1	0.8	1.3	177.
8.5	1292.	3334.	0.4	0.1	0.4	103.
9.0	1368.	3410.	0.1	0.9	1.9	176.
9.5	1444.	3486.	0.3	0.4	0.5	217.
10.0	1520.	3562.	0.5	0.3	0.6	235.
10.5	1596.	3638.	0.9	0.3	1.0	251.
11.0	1672.	3714.	1.2	0.2	1.2	263.
11.5	1748.	3790.	2.5	0.5	2.6	282.
12.0	1824.	3866.	1.1	0.3	1.1	286.
12.5	1900.	3942.	1.0	0.3	1.0	278.
13.0	1976.	4018.	1.0	0.3	1.1	286.
13.5	2052.	4094.	2.3	0.4	2.4	286.
14.0	2128.	4170.	1.7	0.4	1.8	292.
14.5	2204.	4246.	1.5	0.0	1.5	269.
15.0	2280.	4322.	2.7	0.0	2.8	287.
15.5	2356.	4398.	3.6	0.1	4.2	300.
16.0	2432.	4474.	2.2	0.2	2.3	245.



COL CB TRACT ELEV 2042 METERS SOUNDING ID 2739

TE 07/01/76 TIME 06:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 0M OF THE SEC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-2.88
100.	250.	-0.76
250.	500.	-1.07
500.	750.	-0.80
750.	1000.	-1.08
1000.	1500.	-0.83

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2738

TE 07/03/76 TIME 06:00MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-0.88
100.	250.	-0.81
250.	500.	-0.79
500.	750.	-0.91
750.	1000.	-0.73
1000.	1500.	-0.88

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2735

TE 07/03/76 TIME 12:30MST ASCENT RATE 600 FPM DATA INTERVAL 15 SEC.

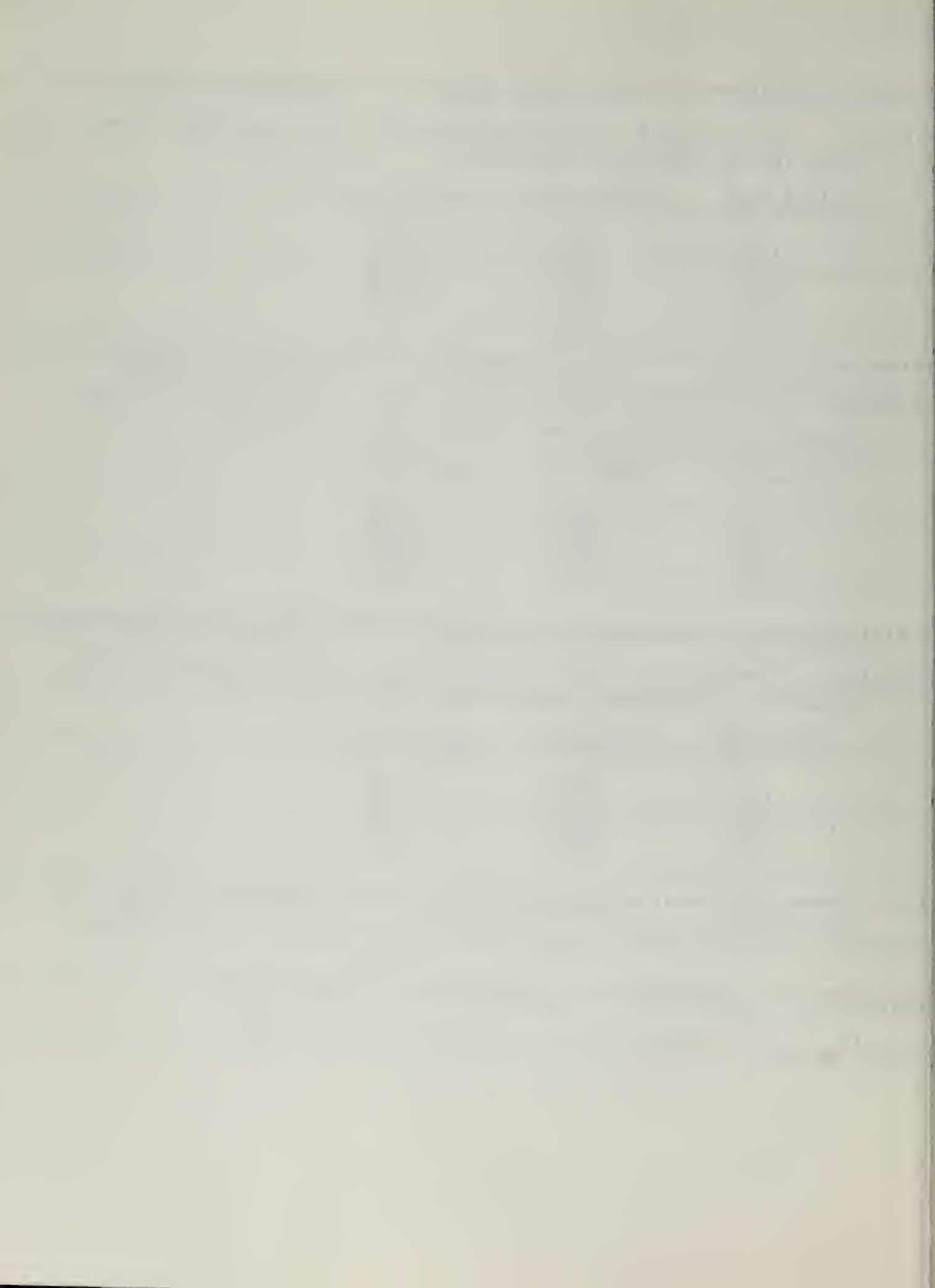
THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-0.59
100.	250.	-1.00
250.	500.	-1.09
500.	750.	-0.75
750.	1000.	-0.86
1000.	1500.	-0.87

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2734

TE 07/09/76 TIME 06:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	114.	0.0	-0.79



COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2735

07/09/76 TIME 11:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
495.	435.	0.0	-0.75

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2732

07/11/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	114.	0.0	-0.39

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2724

07/11/76 TIME 11:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-0.32
100.	250.	-0.46
250.	500.	-0.88
500.	750.	-1.04
750.	1000.	-1.04
1000.	1500.	-0.89

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2726

07/13/76 TIME 07:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

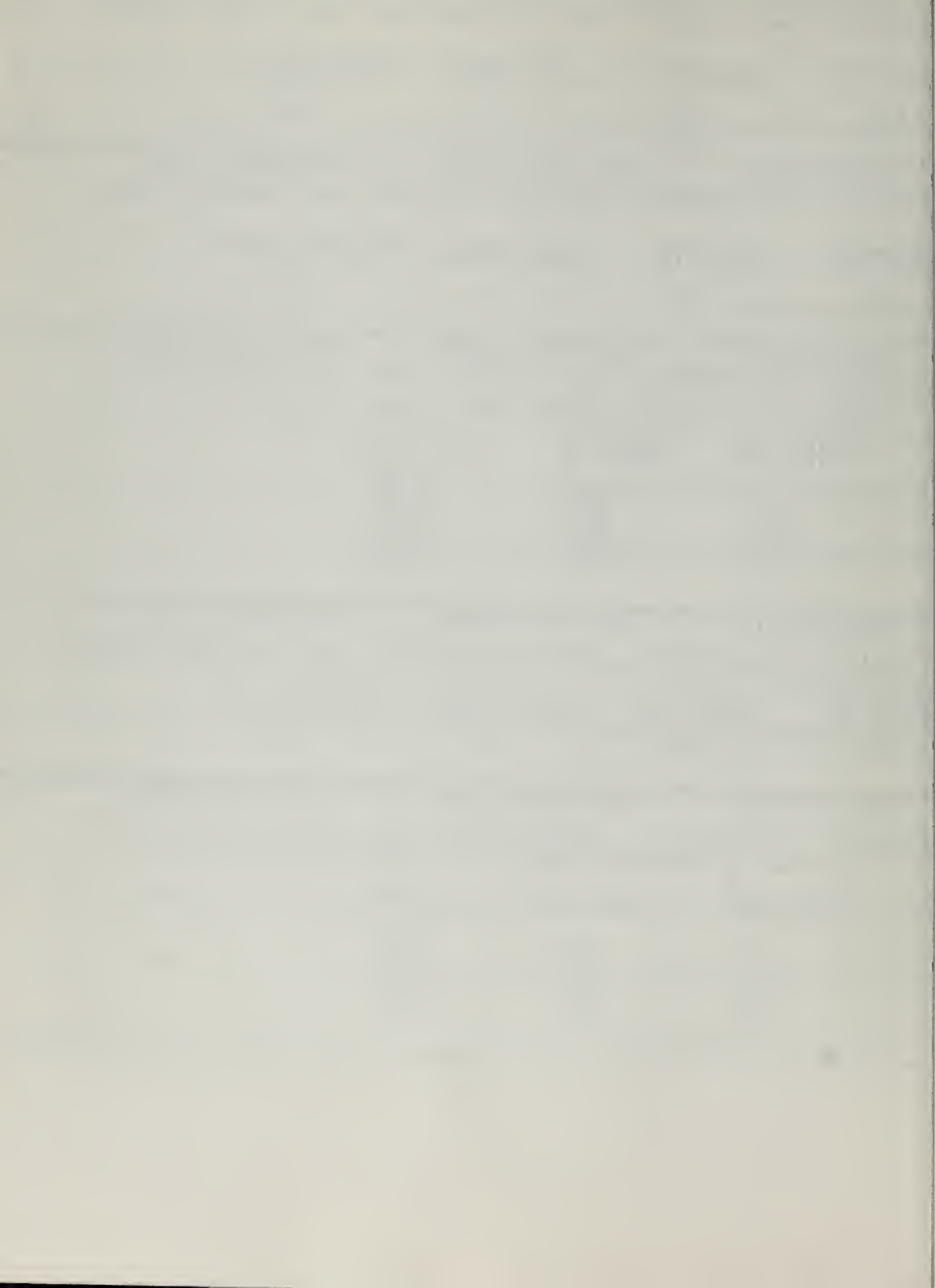
INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
316.	392.	0.0	-0.85

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2736

07/13/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-1.35
100.	250.	-0.62
250.	500.	-1.06
500.	750.	-1.07
750.	1000.	-0.87
1000.	1500.	-0.82



COL CB TRACT ELEV 2042 METERS SOUNDING ID 2730

DATE 07/15/76 TIME 06:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	572.	0.02	-0.24

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2728

DATE 07/15/76 TIME 11:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
191.	224.	0.24	-0.75

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2799

DATE 07/17/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SEC

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2727

DATE 07/17/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-1.44
100.	250.	-0.86
250.	500.	-1.09
500.	750.	-1.01
750.	1000.	-1.01
1000.	1500.	-0.91

COL CB TRACT ELEV 2042 METERS SOUNDING ID 1424

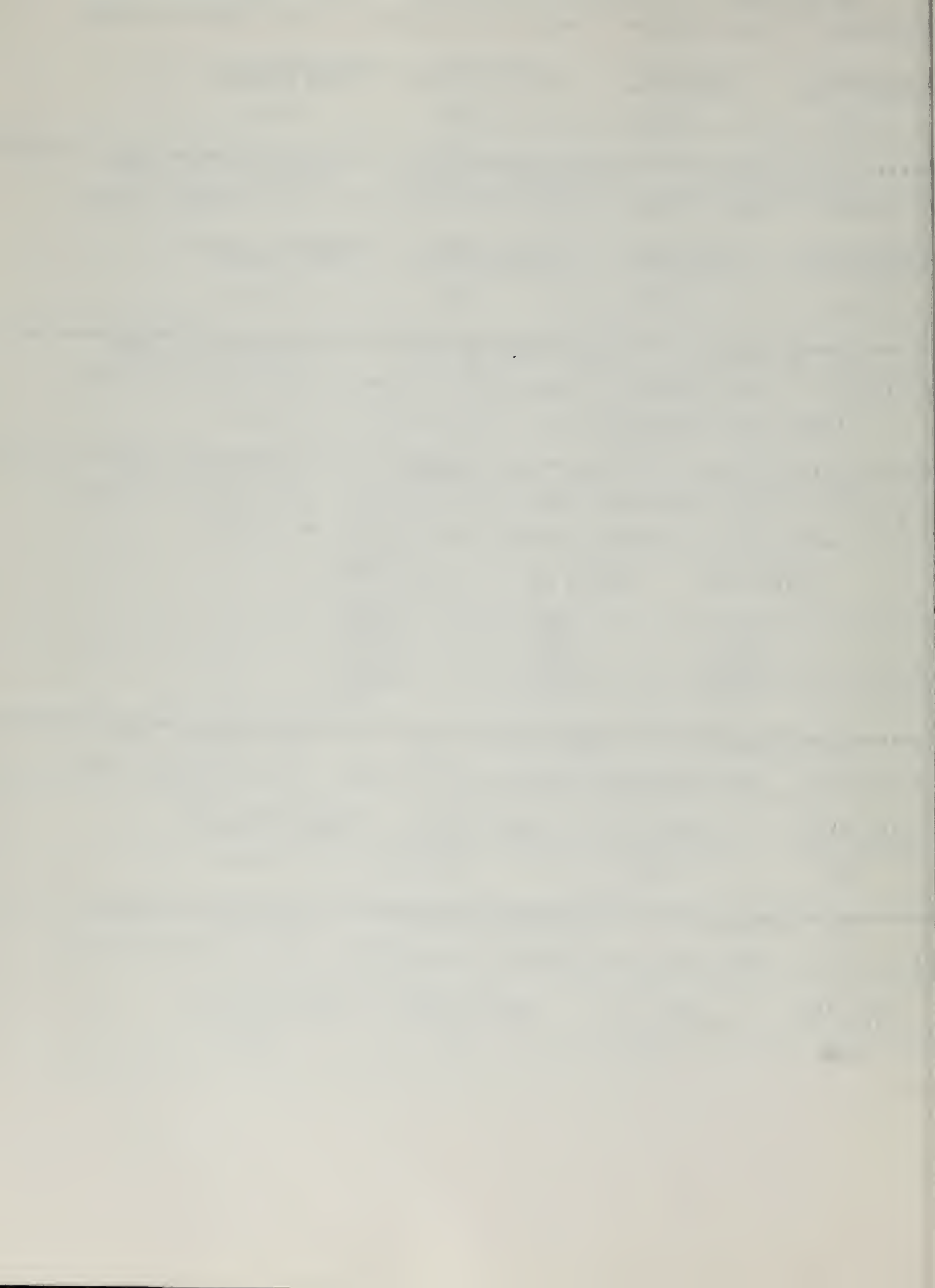
DATE 07/19/76 TIME 06:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
152.	229.	0.35	-0.41

COL CB TRACT ELEV 2042 METERS SOUNDING ID 2309

DATE 07/19/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
365.	408.	0.0	-1.12



COL CB TRACT ELEV 2042 METERS

SOUNDING ID 2063

E 07/21/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

0.

76.

0.12

0.0

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2312

E 07/21/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE
METERS AGLLAYER TOP
METERS AGLDT/DZ
(DEG C)/100M0.
100.
250.
500.
750.
1000.100.
250.
500.
750.
1000.
1500.-1.82
-0.80
-1.02
-0.83
-0.89
-0.97*****
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 1746

E 07/23/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

38.

76.

0.0

-0.24

COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2216

E 07/23/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 1500M OF THE SEC

LAYER BASE
METERS AGLLAYER TOP
METERS AGLDT/DZ
(DEG C)/100M0.
100.
250.
500.
750.
1000.100.
250.
500.
750.
1000.
1500.-0.67
-0.45
-0.85
-0.76
-0.73
-0.73*****
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2310

E 07/25/76 TIME 06:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE
METERS AGLINV TOP
METERS AGLINV DT/DZ
(DEG C)/100MDT/DZ BELOW INV
(DEG C)/100M

1177.

1215.

1.44

-0.95

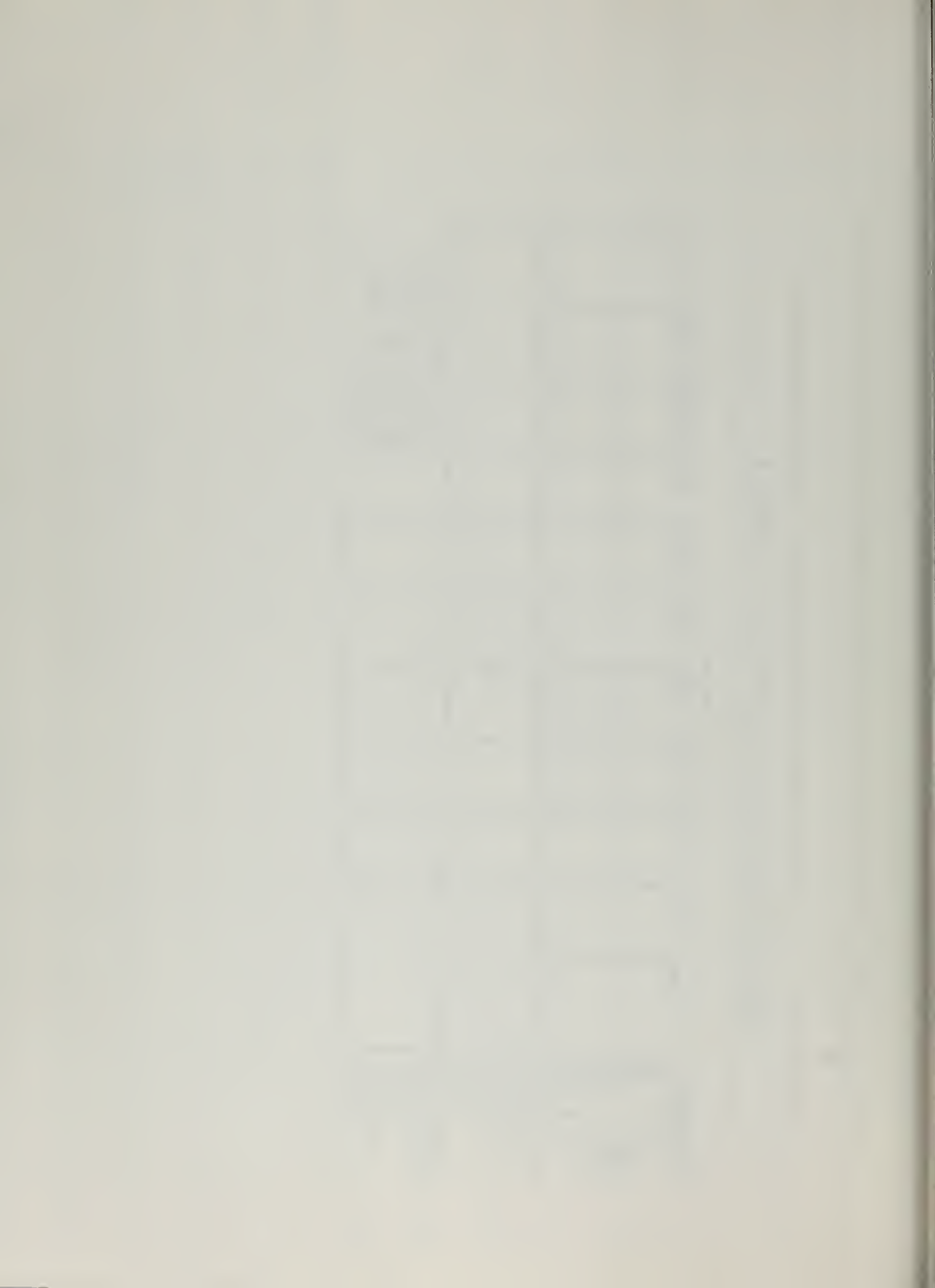
COL CB TRACT

ELEV 2042 METERS

SOUNDING ID 2317

E 07/25/76 TIME 12:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SEC



MONTH: JULY

YEAR: 1976.

COL CB TRACT

SFC TO 500 METERS

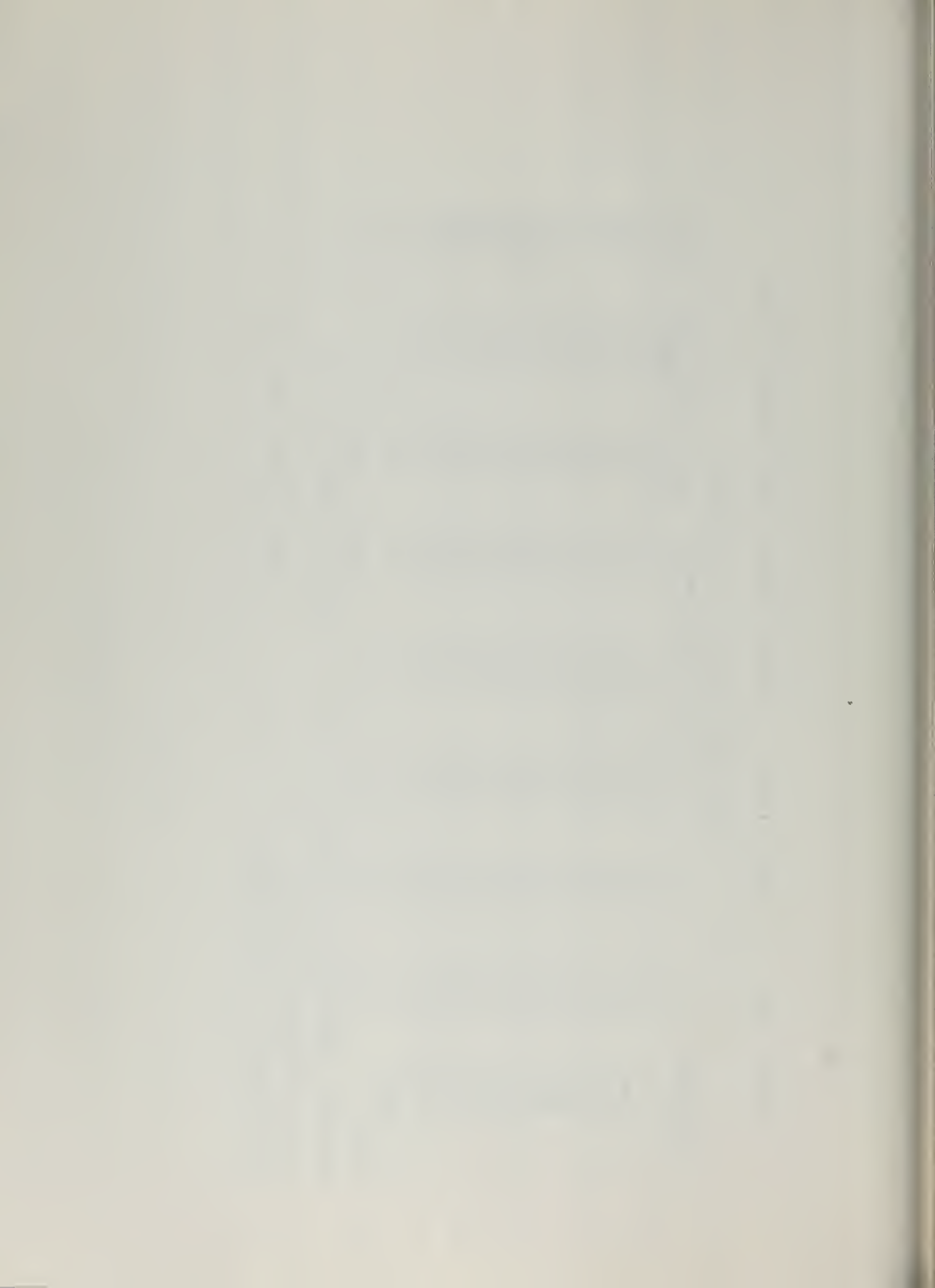
NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 21 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA



MONTH: JULY

YEAR: 1976.

CUL CH TRACT

SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

[illegible]



MONTH: JULY YEAR: 1976. COL CH TRACT SFC TO 500 METERS

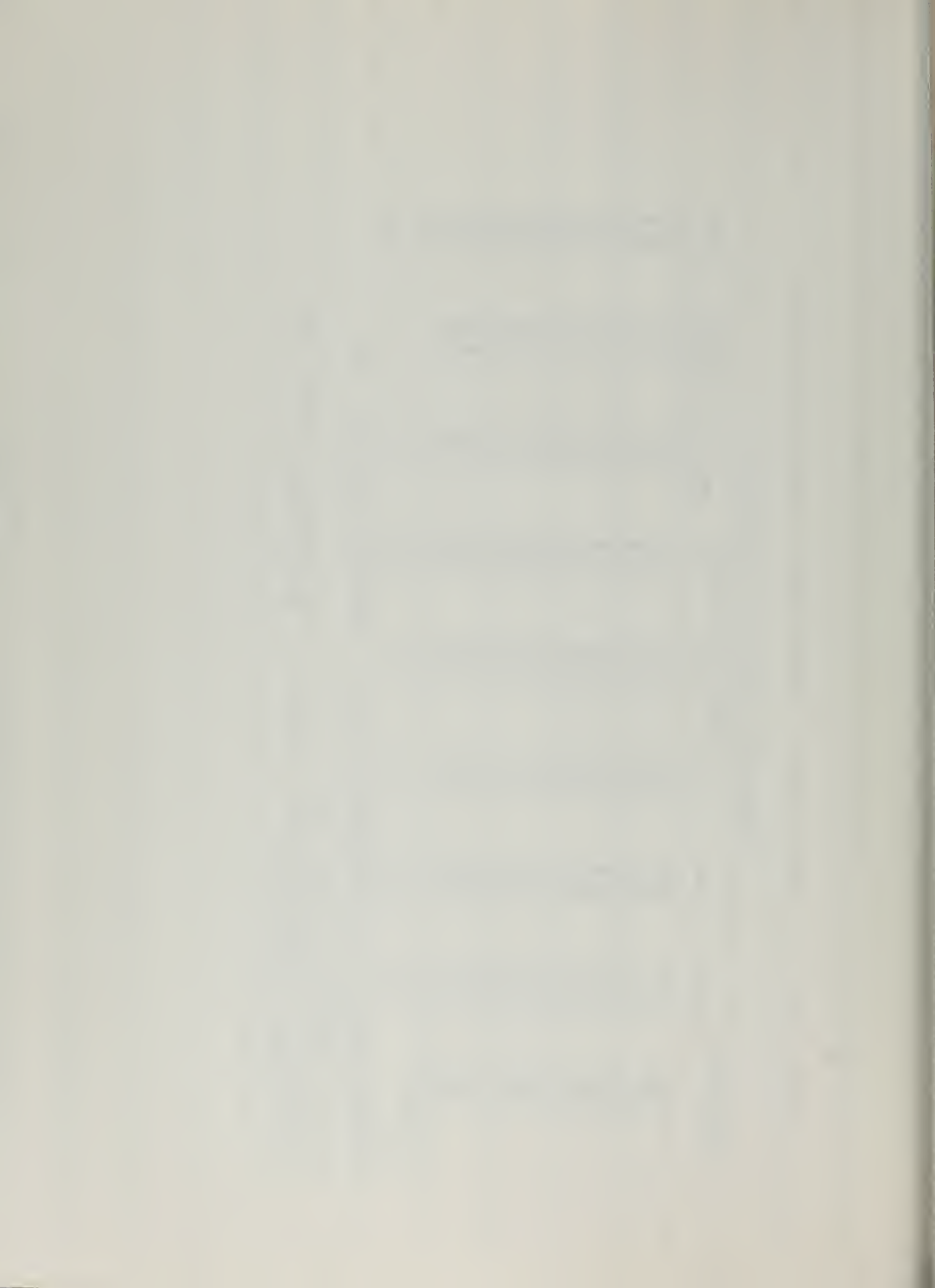
NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE C STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 21 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA



MONTH: JULY YEAR: 1976. COL CH TRACT SFC TO 500 METERS

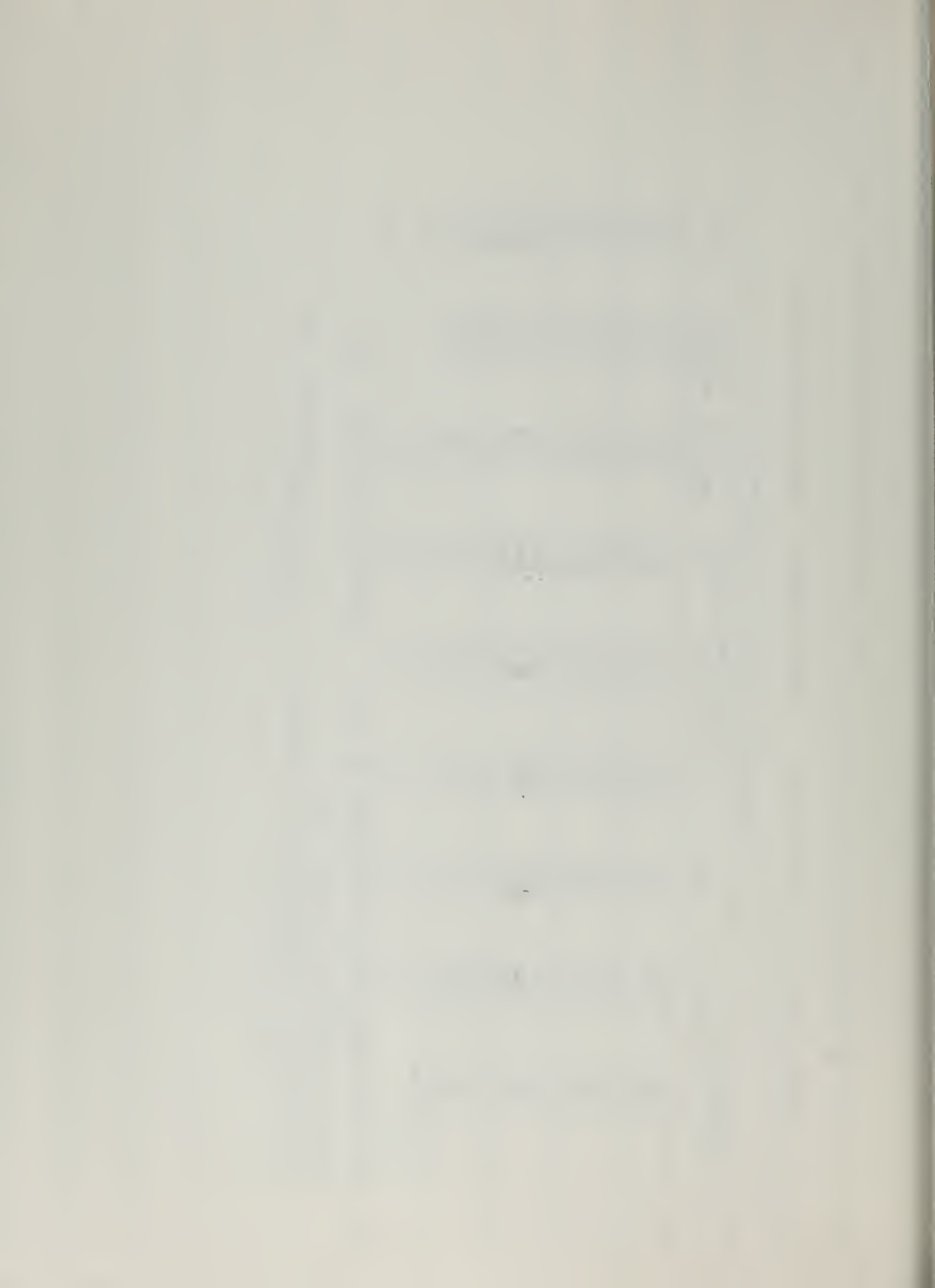
NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.06	0.0	0.0	0.0	0.0	0.0	1.0	0.06
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.06	0.0	0.0	0.0	0.0	0.0	2.0	0.06
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.06	0.0	0.0	0.0	0.0	0.0	1.8	0.06
S	0.06	0.06	0.0	0.0	0.0	0.0	3.0	0.11
SSW	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.06	0.0	0.0	0.0	0.0	0.0	1.4	0.11
WSW	0.11	0.0	0.0	0.0	0.0	0.0	2.3	0.06
W	0.06	0.0	0.0	0.0	0.0	0.0	2.0	0.17
WNW	0.11	0.06	0.0	0.0	0.0	0.0	0.9	0.06
NW	0.06	0.0	0.0	0.0	0.0	0.0	2.5	0.17
NNW	0.11	0.0	0.0	0.0	0.0	0.0	2.0	0.06
AVG SPEED	1.7	4.4	0.0	0.0	0.0	0.0	1.5	0.0
TOTAL	0.83	0.17	0.0	0.0	0.0	0.0	0.0	1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE 0 STABILITY CLASS IS 0.90

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 21 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA



MONTH: JULY YEAR: 1976. COL CR TRACT SEC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-15	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.50
SSE	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.50
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.50
NW	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.50
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.00	0.0	0.0	0.0	0.0	0.0	0.0	1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.10

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 21 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JULY YEAR: 1976. COL CR TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 21 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: JULY YEAR: 1976. COL CH TRACT SEC TO 500 METERS

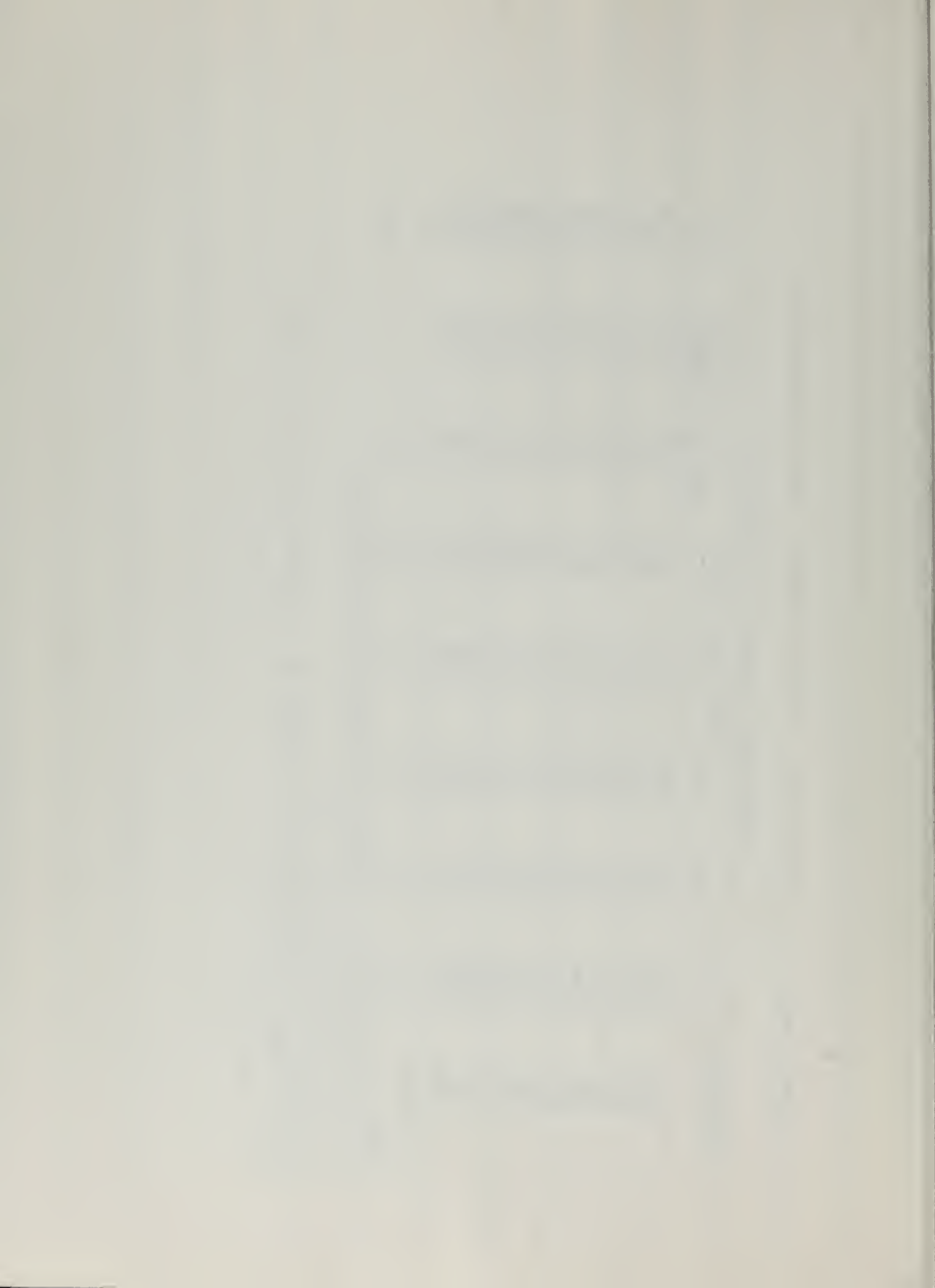
NORMALIZED FREQUENCY DISTRIBUTION

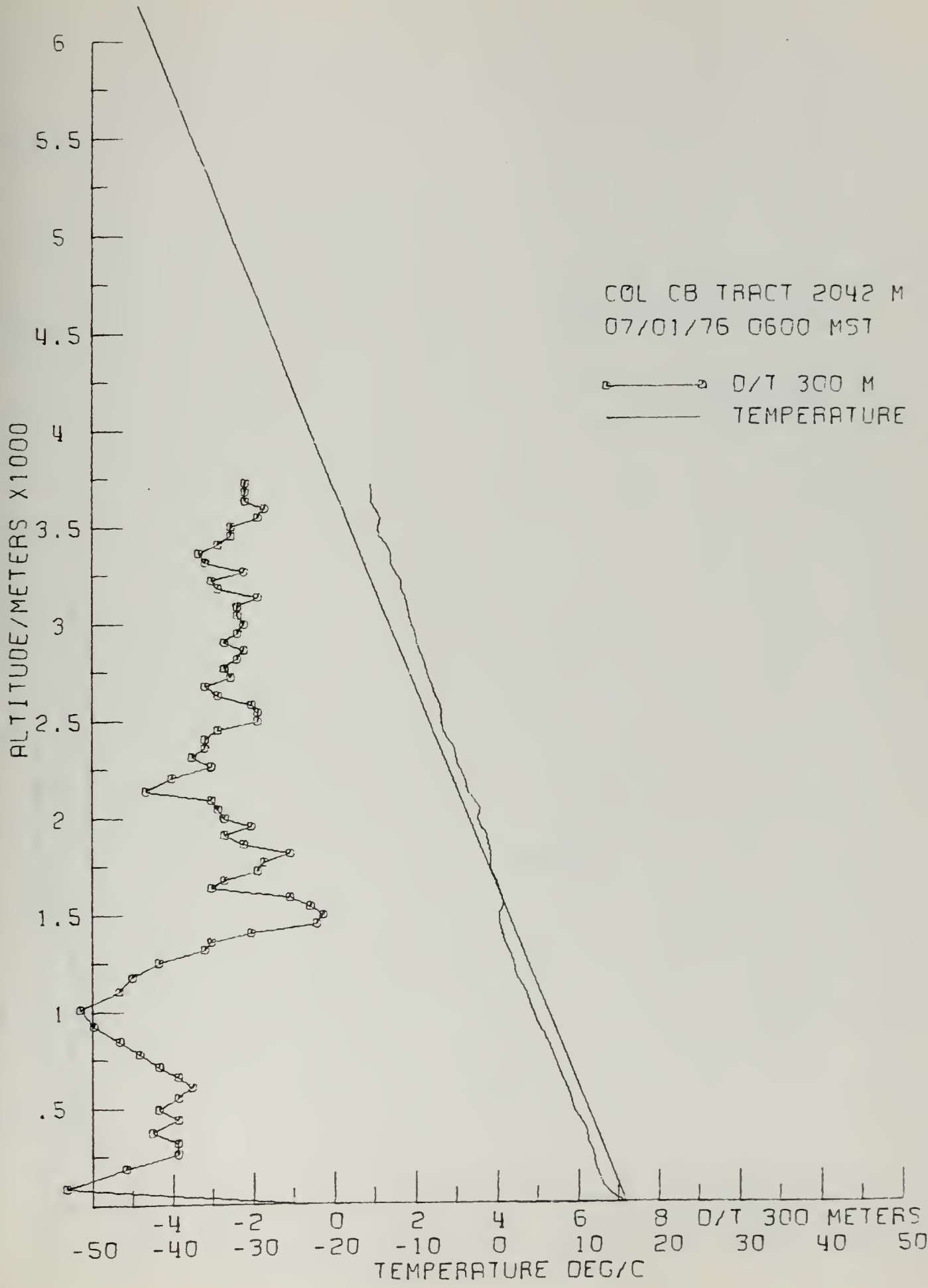
DIRECTION	0-3	4-6	7-10	SPEED (METER/SEC) 11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.05
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.05
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.05
NNE	0.0	0.05	0.0	0.0	0.0	0.0	0.05	0.15
NNE	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.05
NNE	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.05
NNE	0.15	0.05	0.0	0.0	0.0	0.0	0.2	0.2
NNE	0.05	0.0	0.0	0.0	0.0	0.0	0.05	0.05
NNE	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
AVG SPEED	1.7	4.4	0.0	0.0	0.0	0.0		0.0
TOTAL	0.85	0.15	0.0	0.0	0.0	0.0		1.00

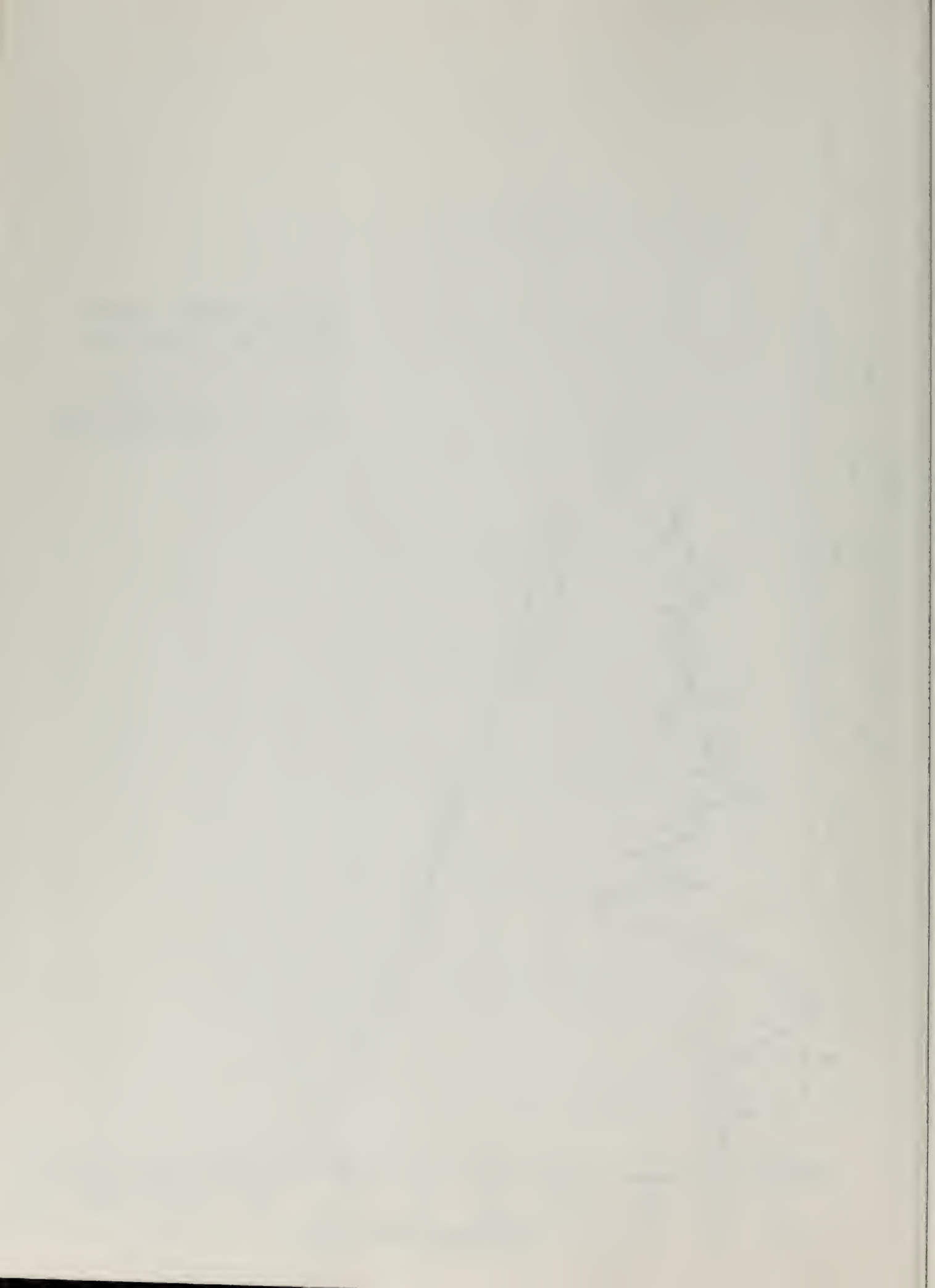
NORMALIZED FREQUENCY DISTRIBUTION INDEPENDENT OF STABILITY

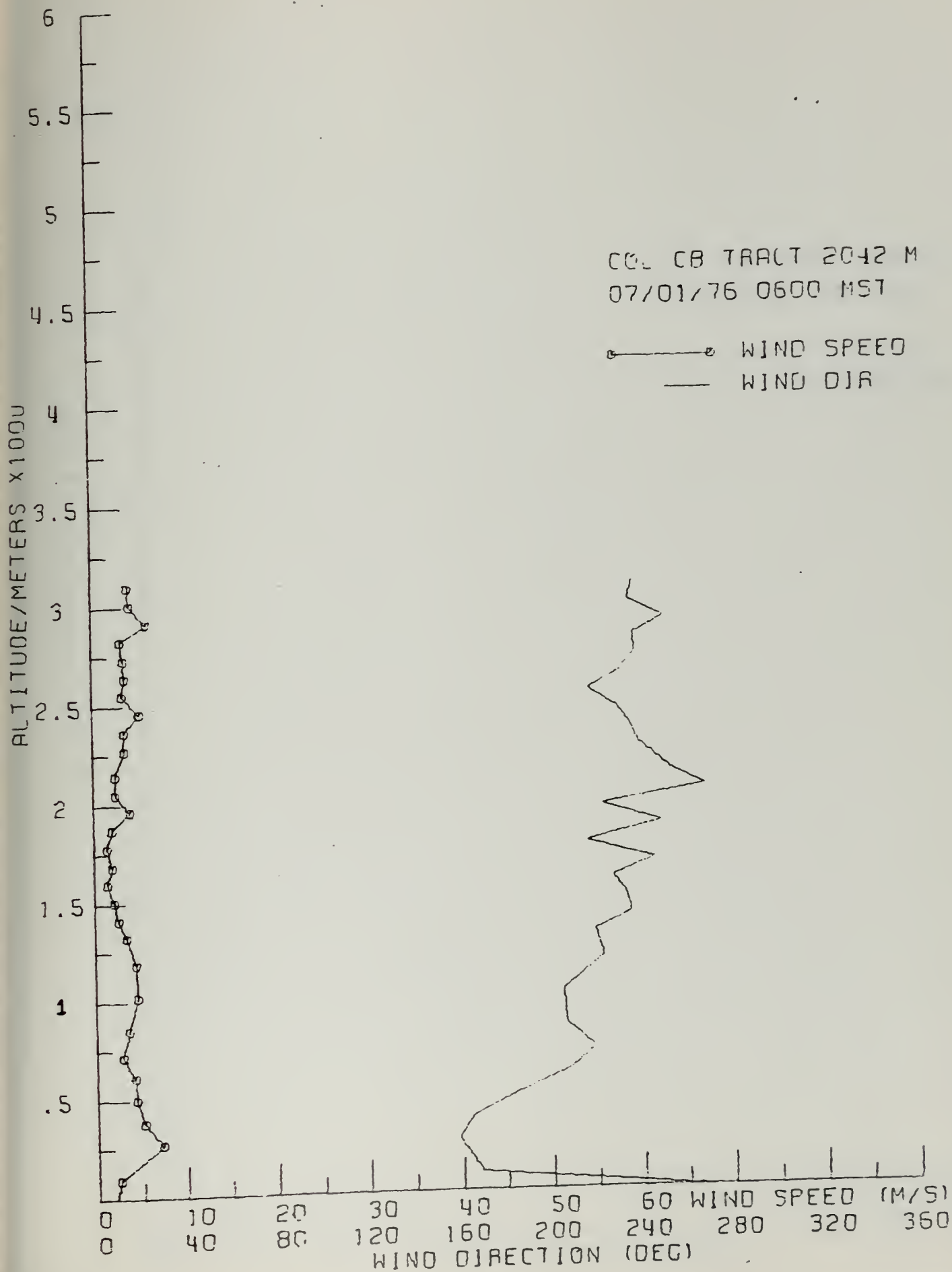
RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 21 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

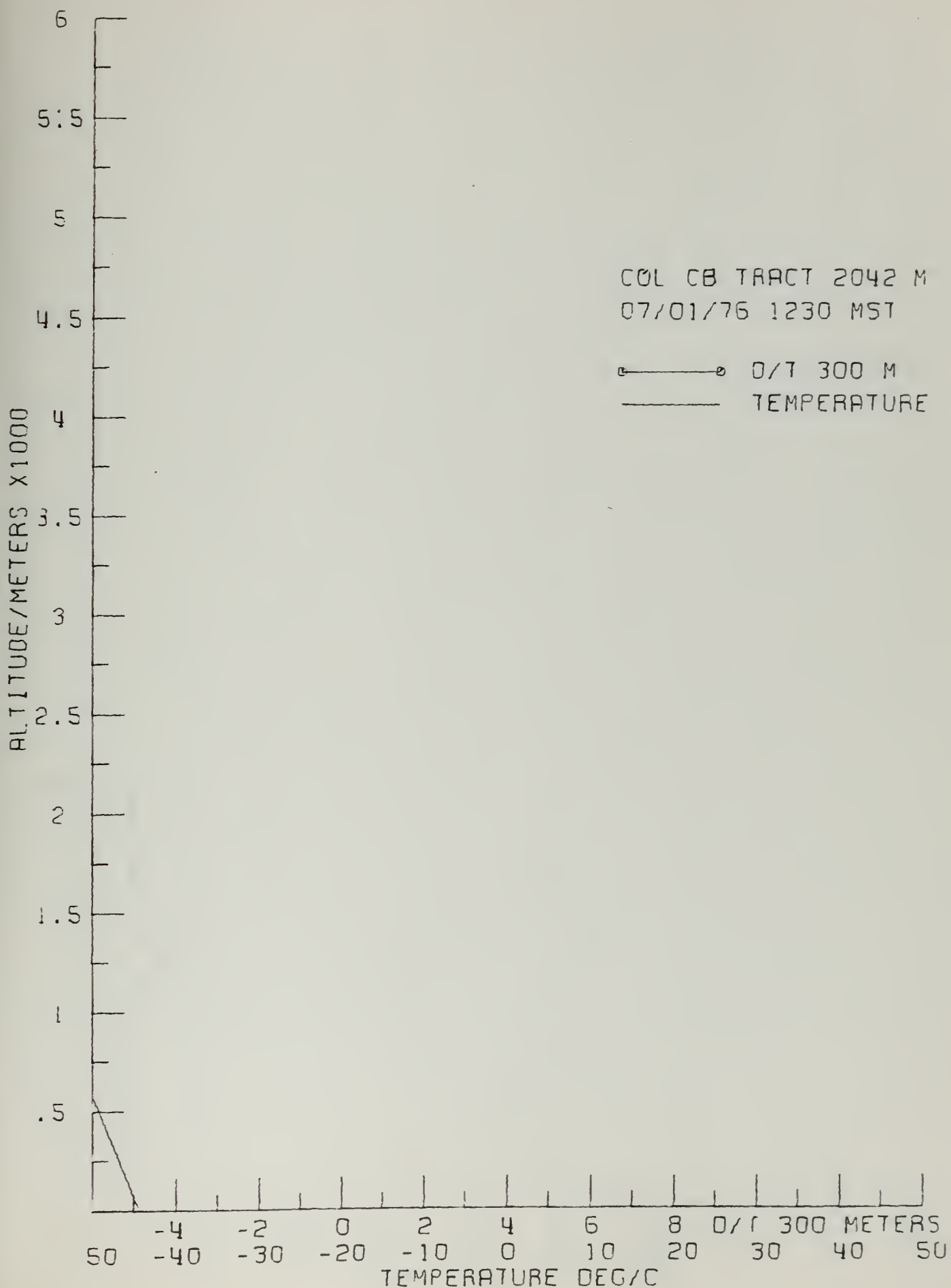








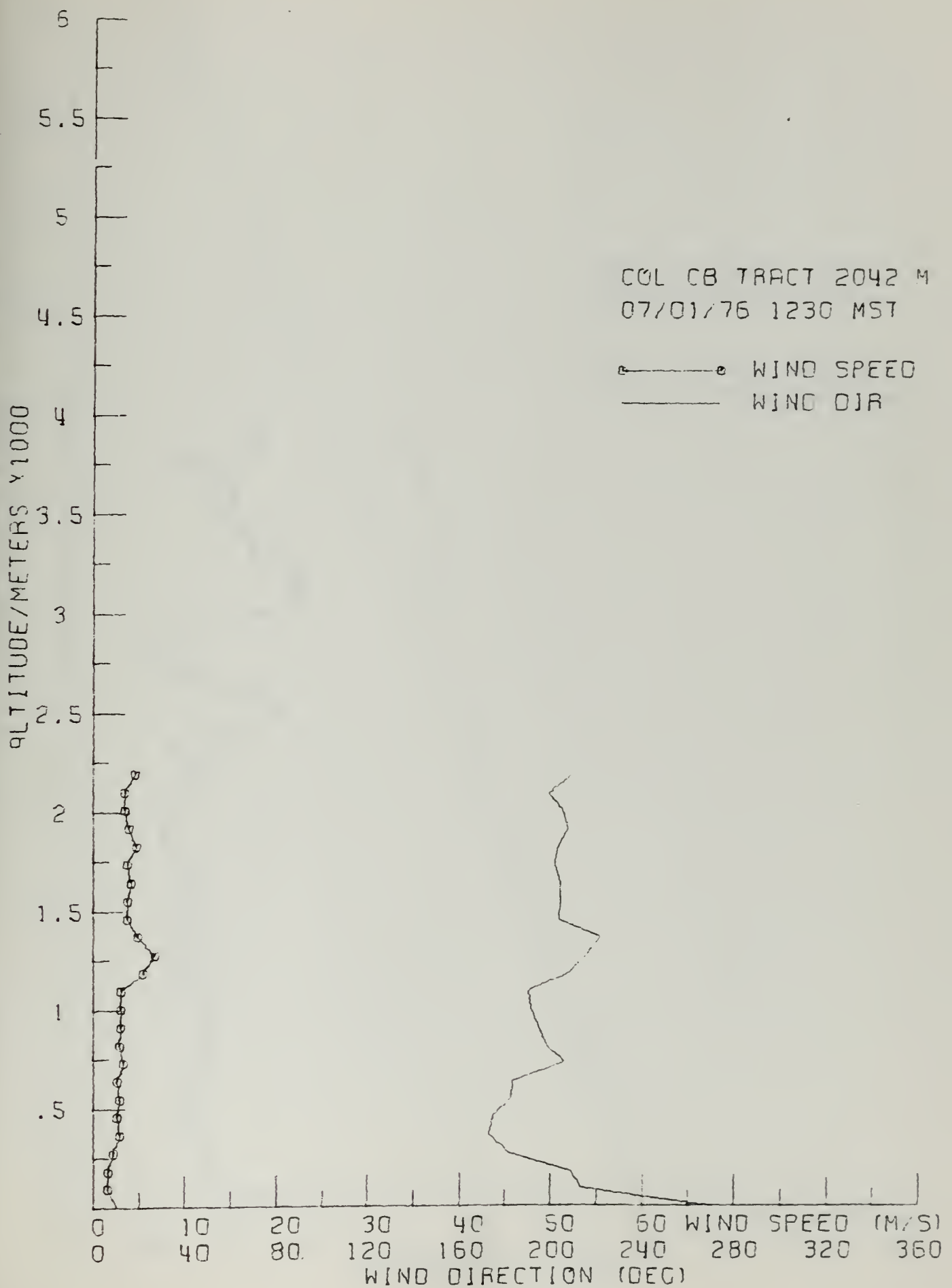






COL CB TRACT 2042 M
07/01/76 1230 MST

—○— WIND SPEED
— WIND DIR



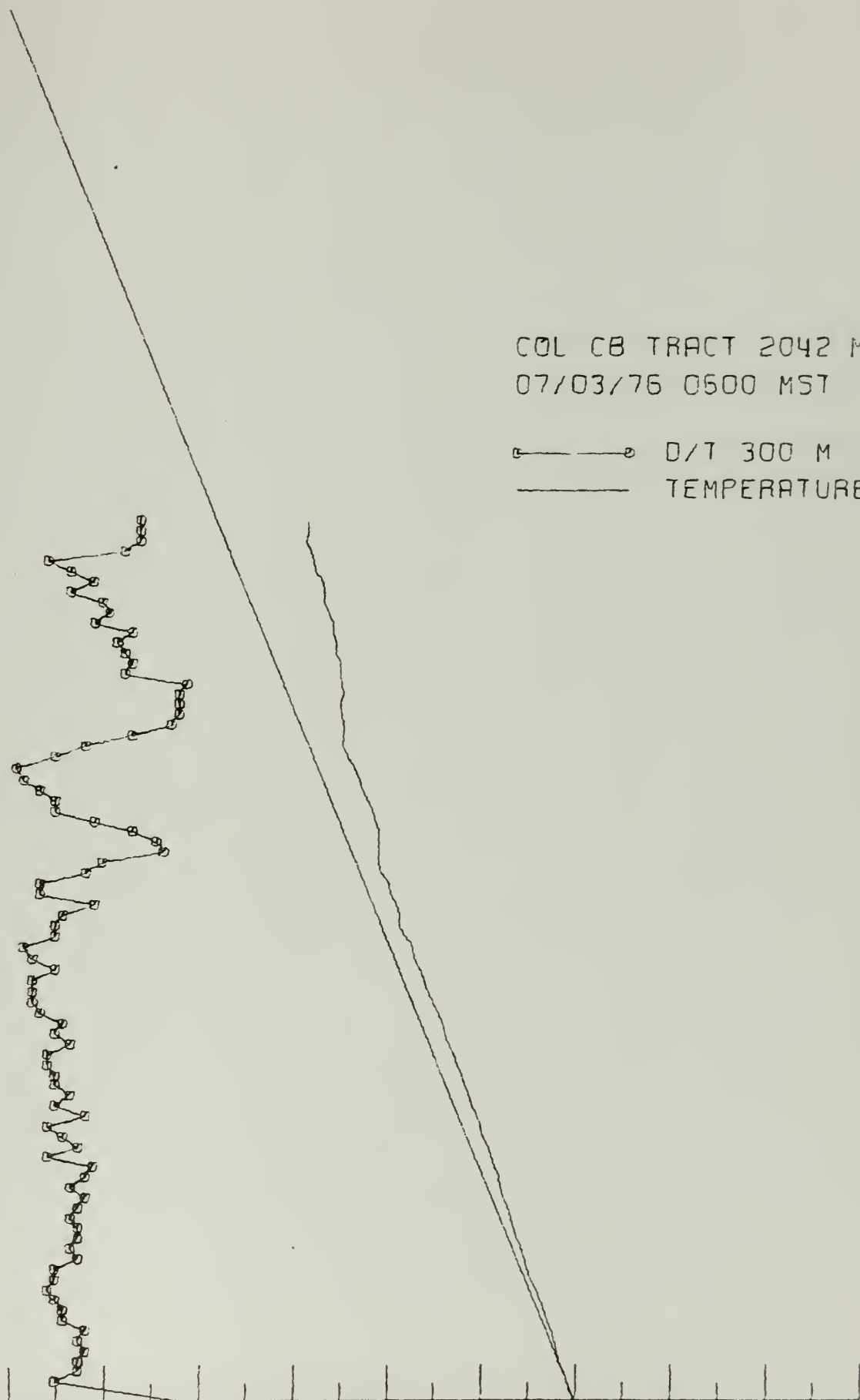
ALTITUDE/METERS X1000

6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5

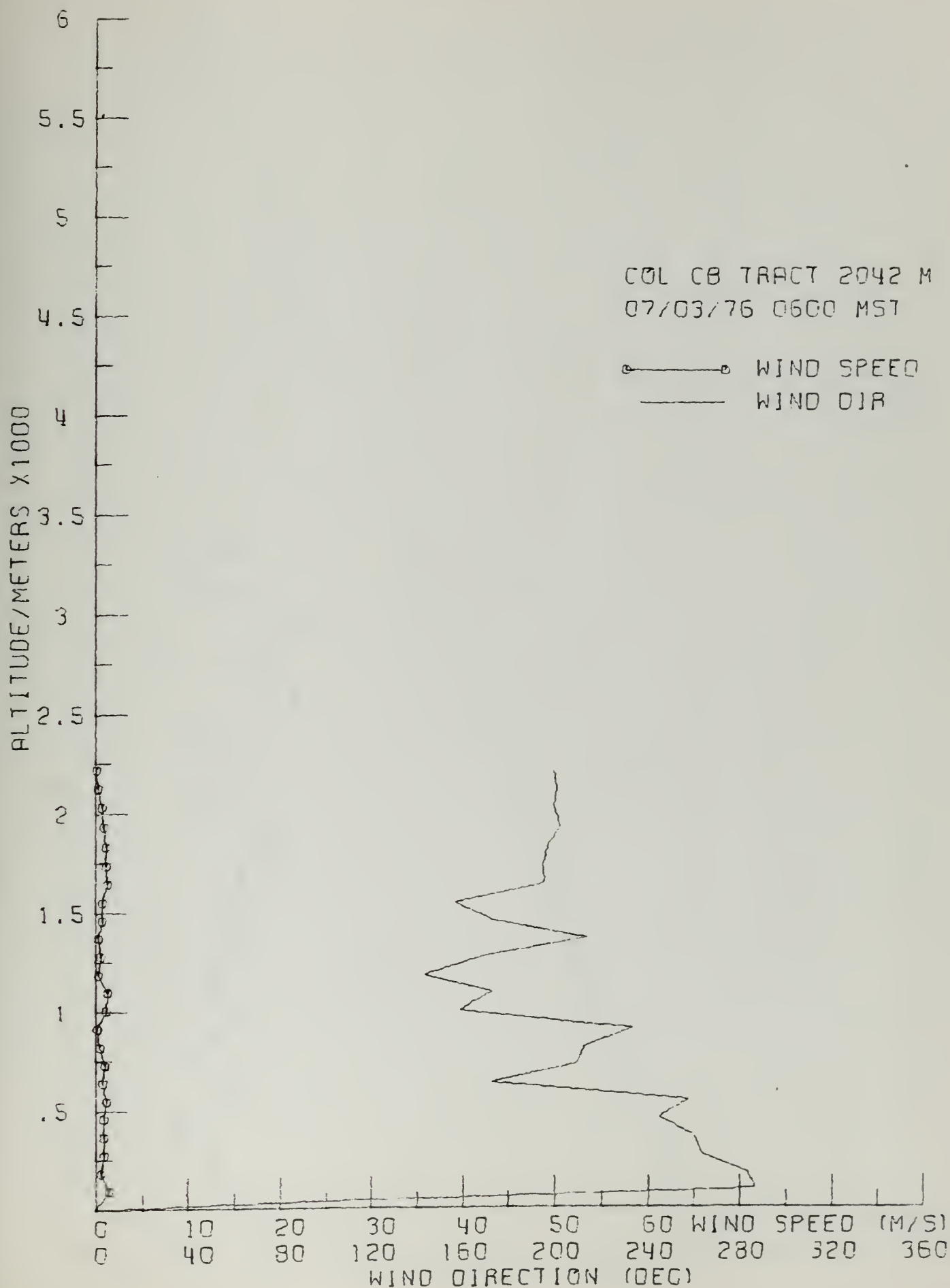
COL CB TRACT 2042 M
07/03/76 0600 MST

—○— D/T 300 M
— TEMPERATURE

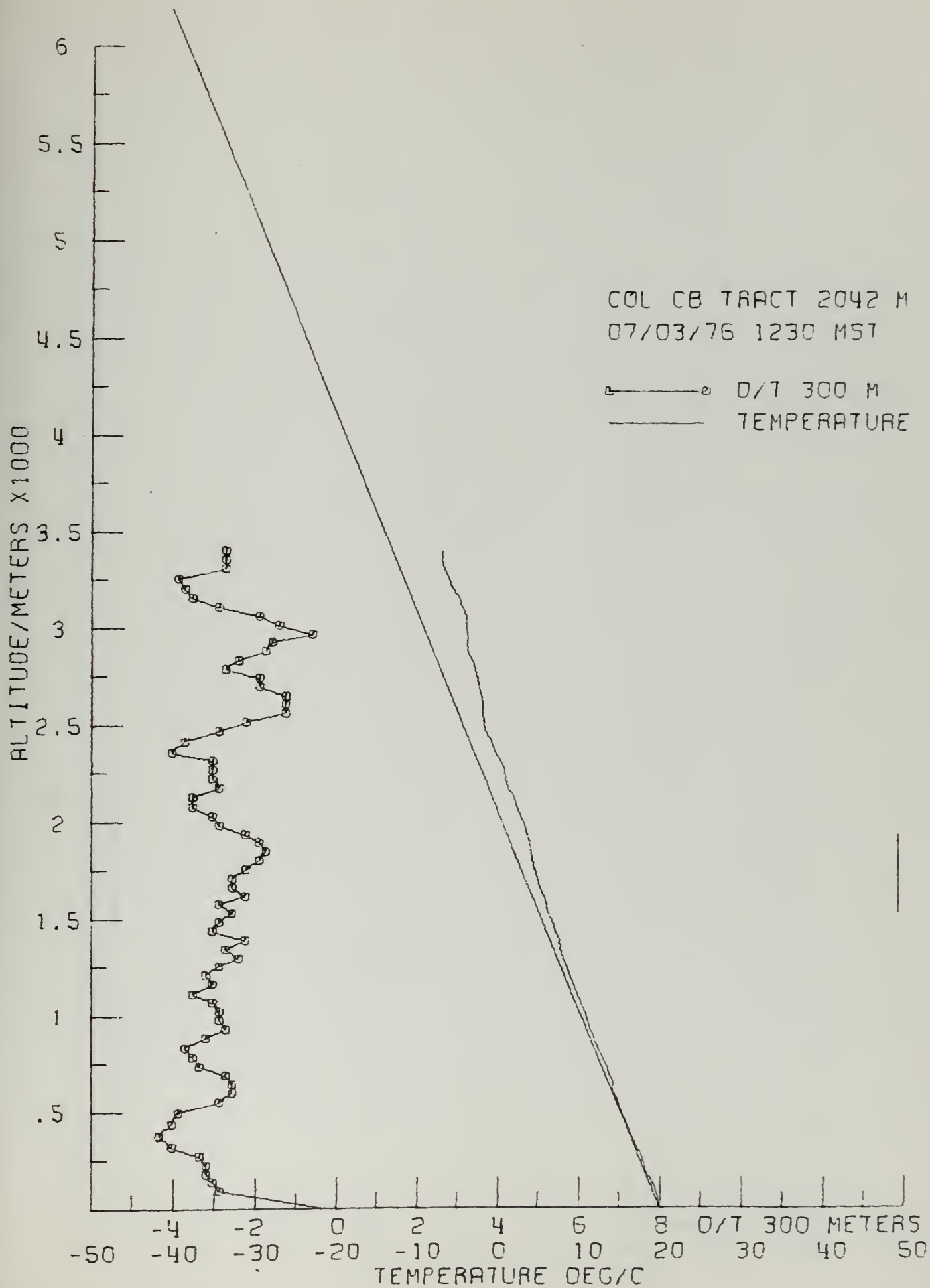
-50 -40 -30 -20 -10 0 10 20 30 40 50
D/T 300 METERS
TEMPERATURE DEG/C

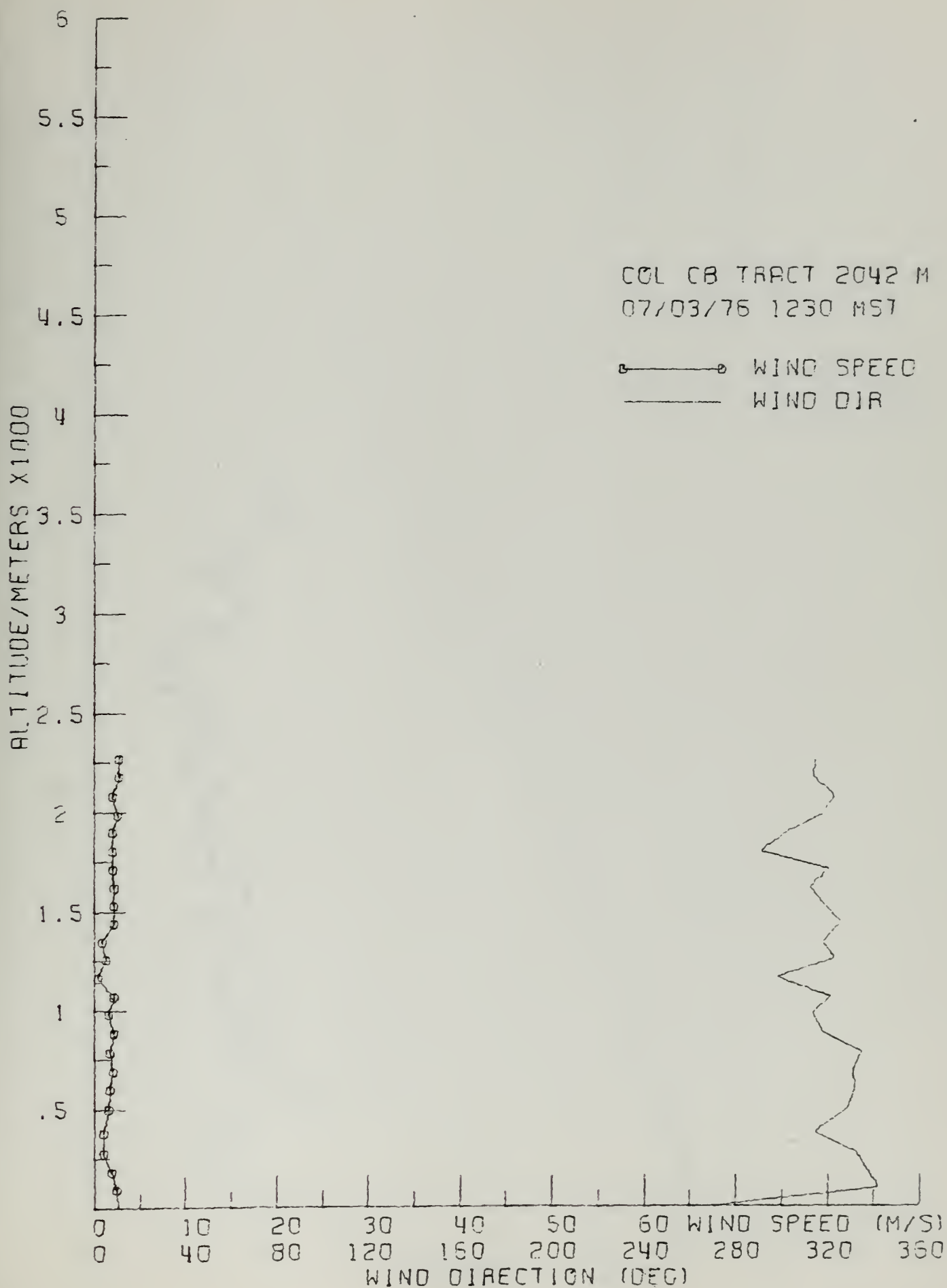


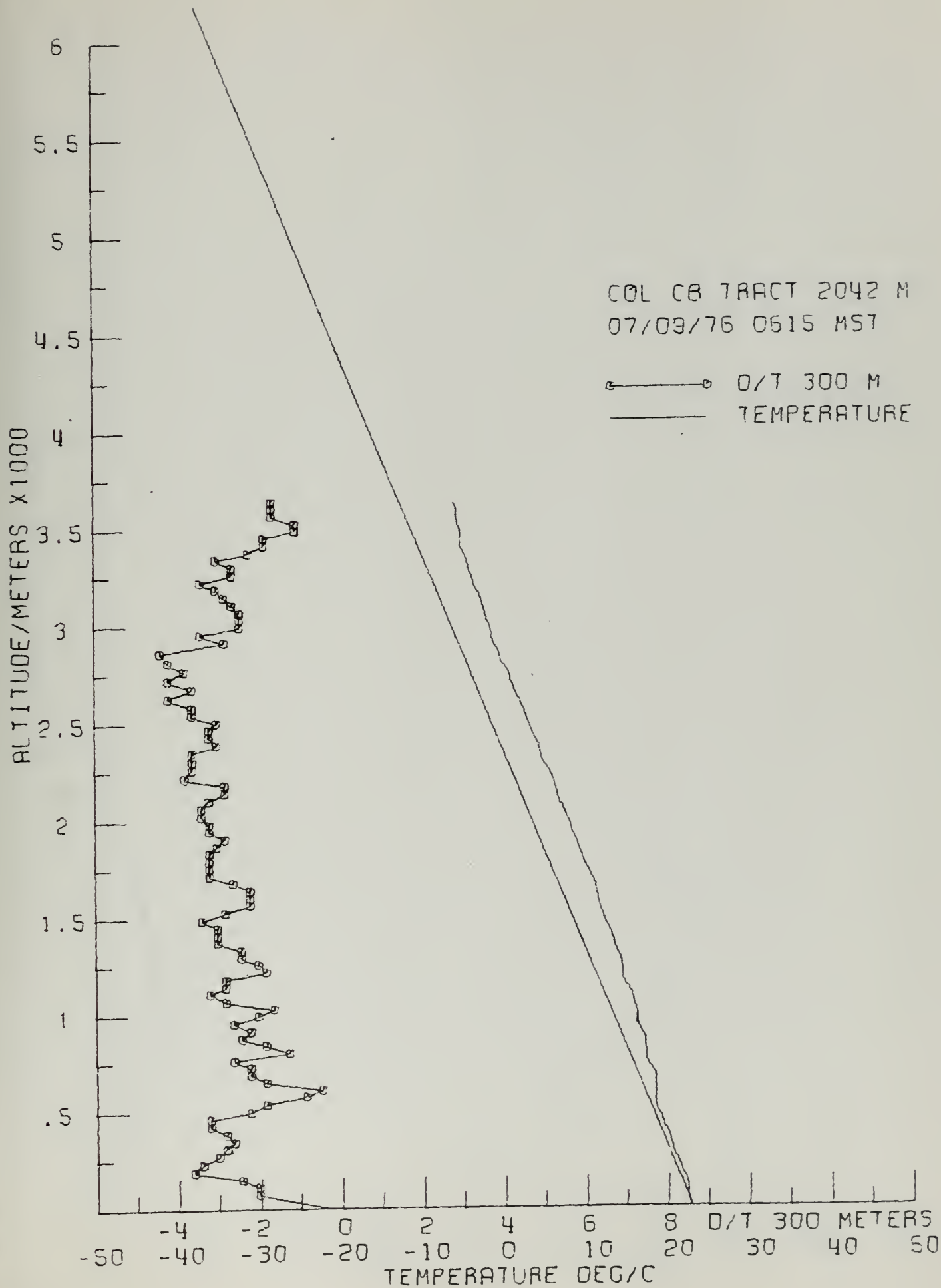


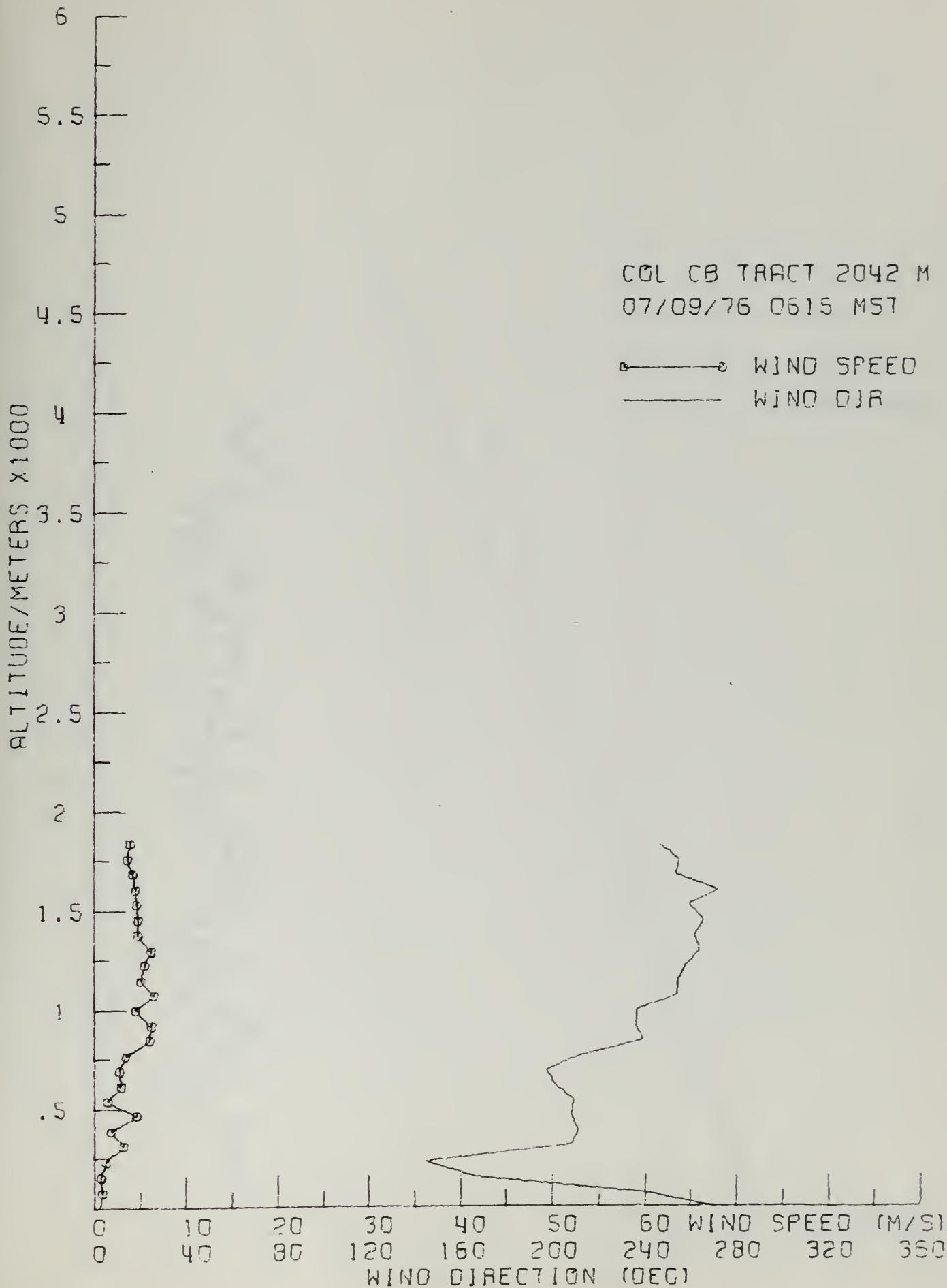




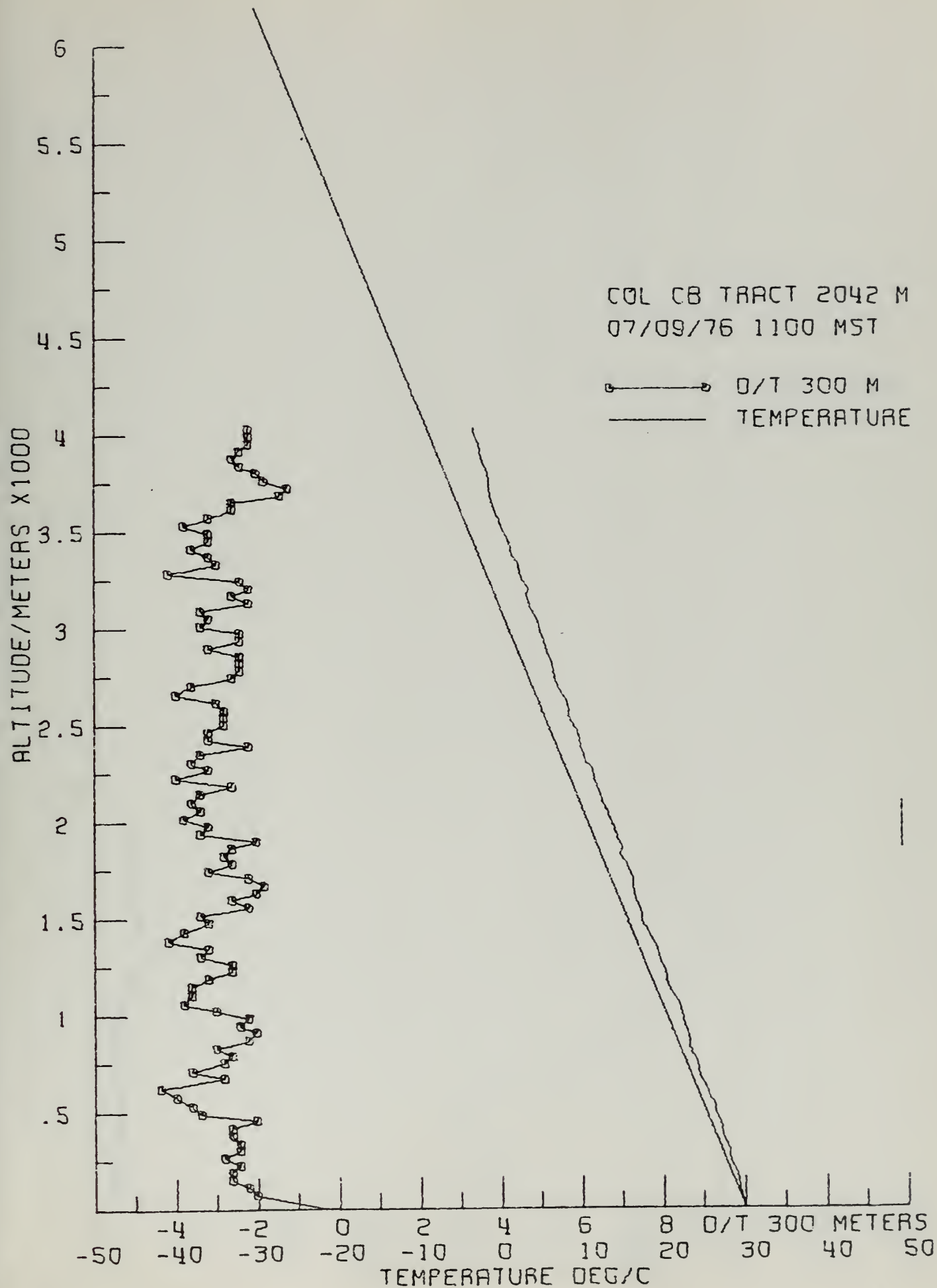


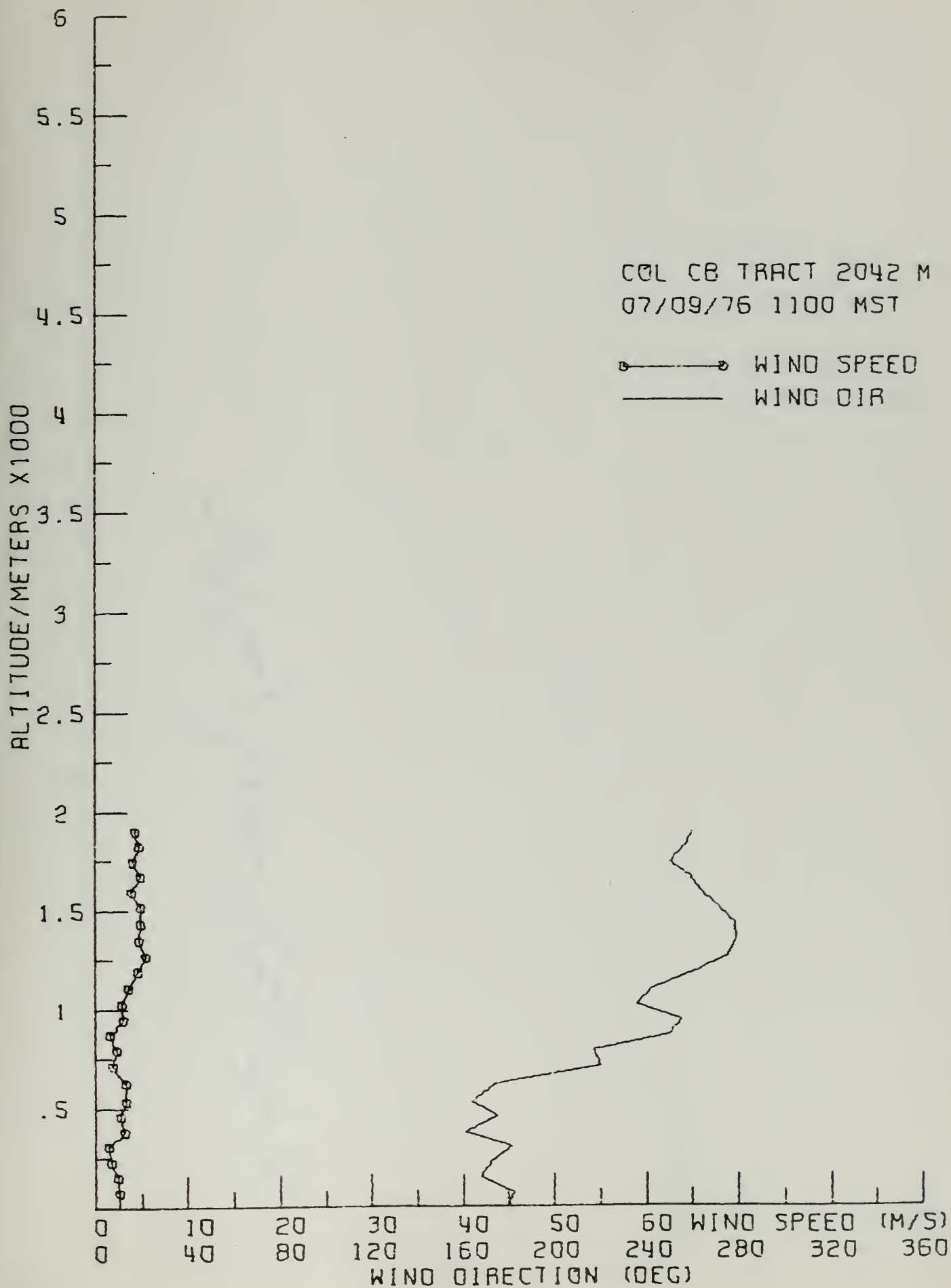




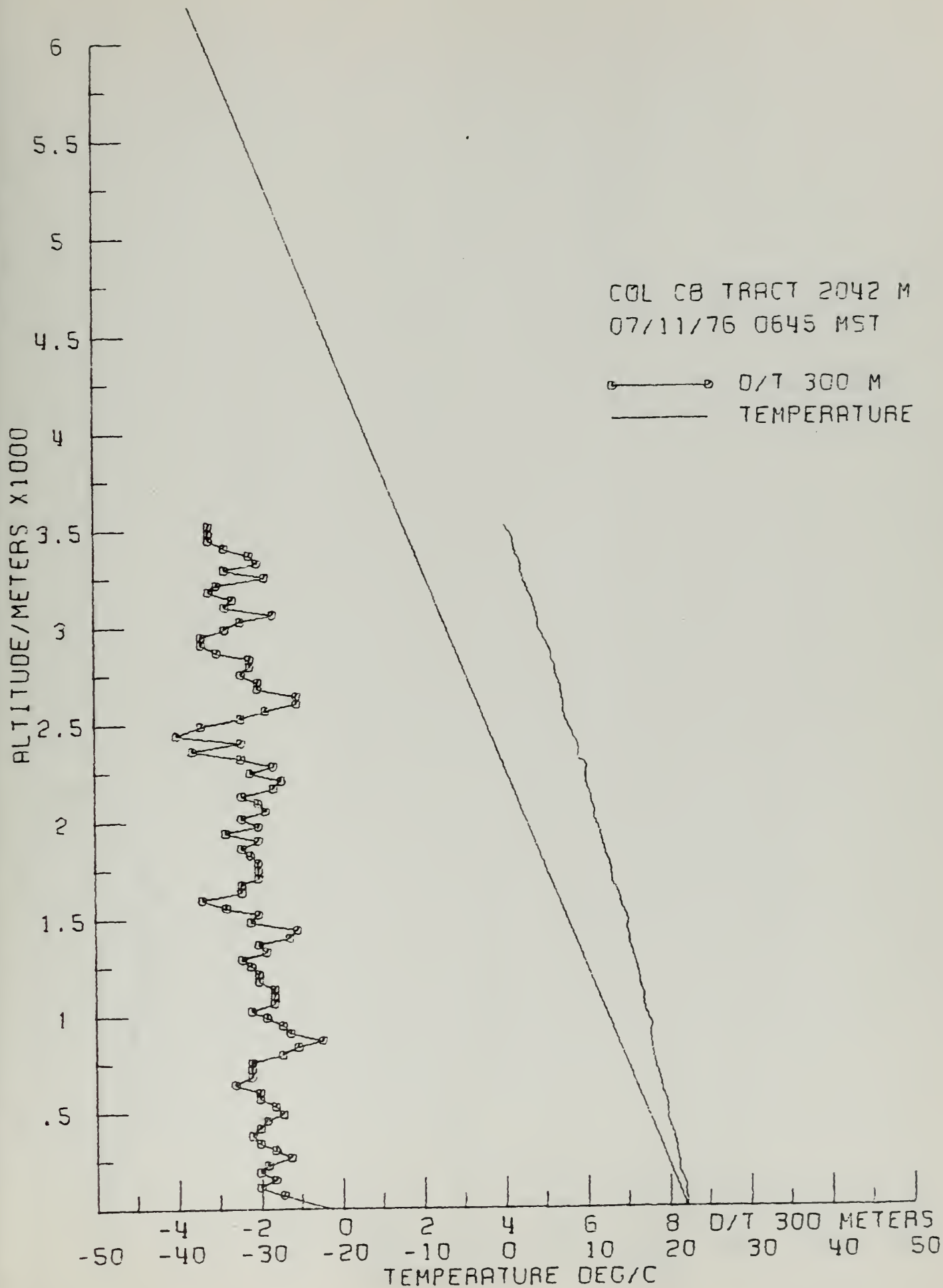




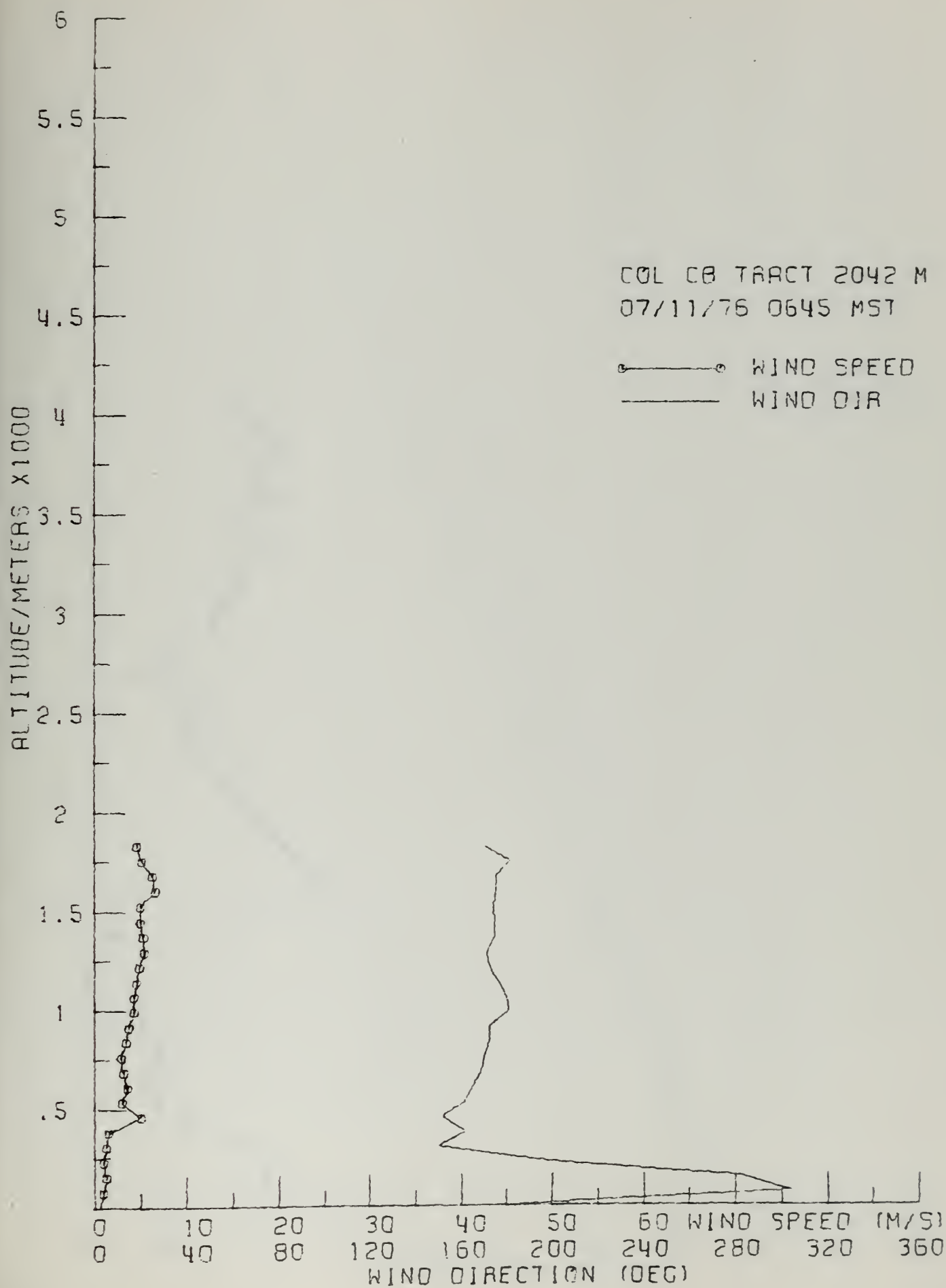




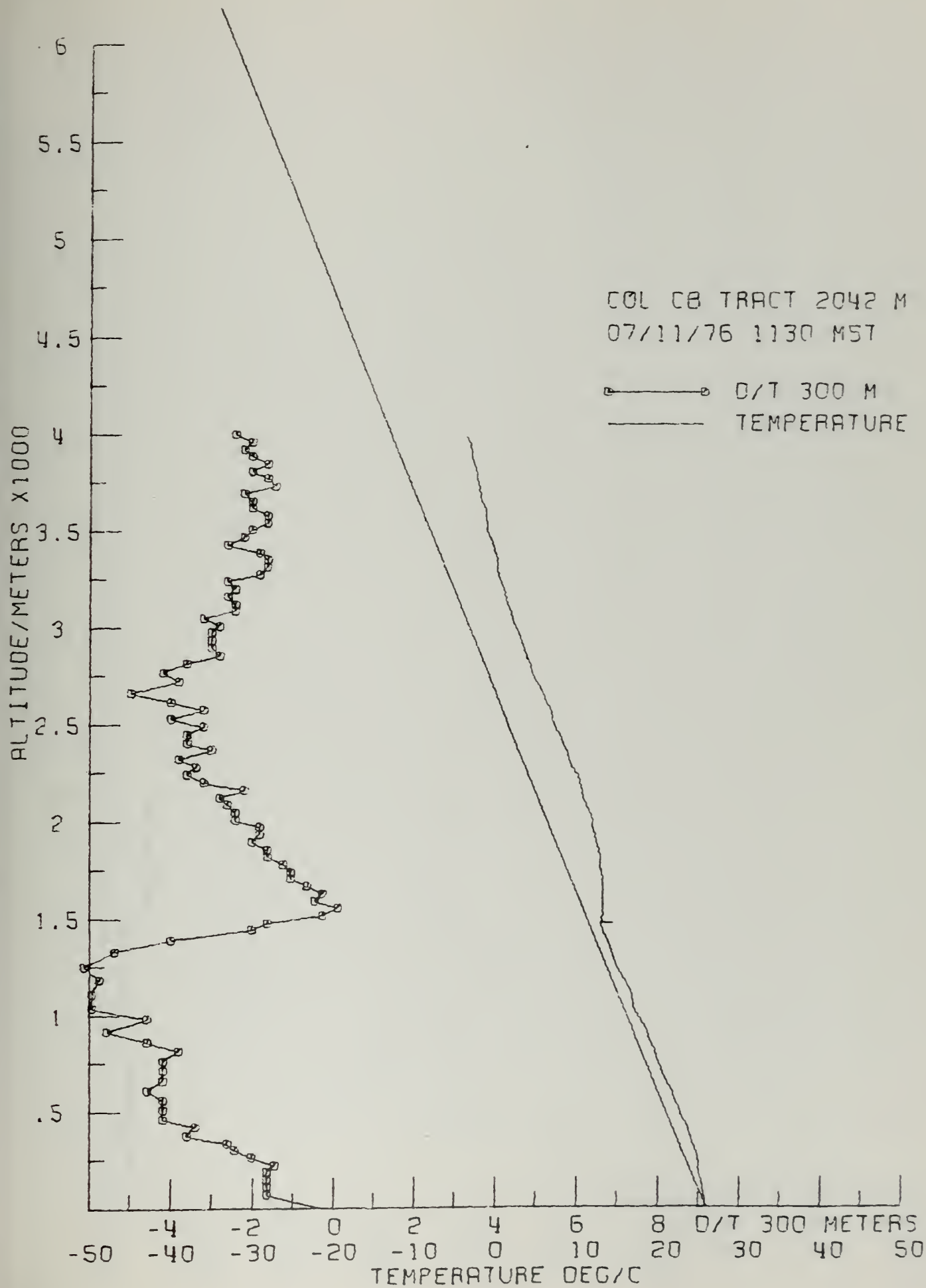




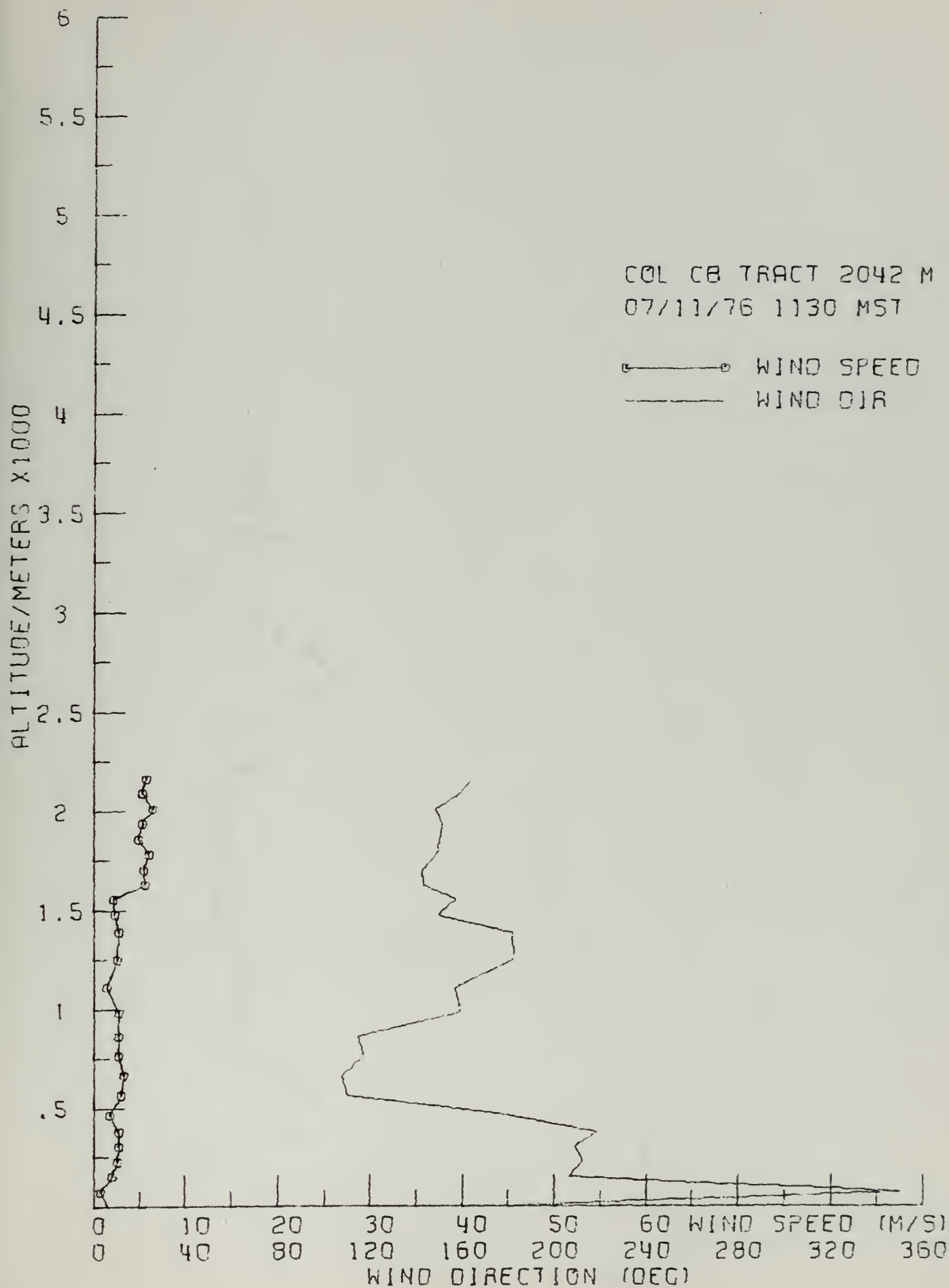


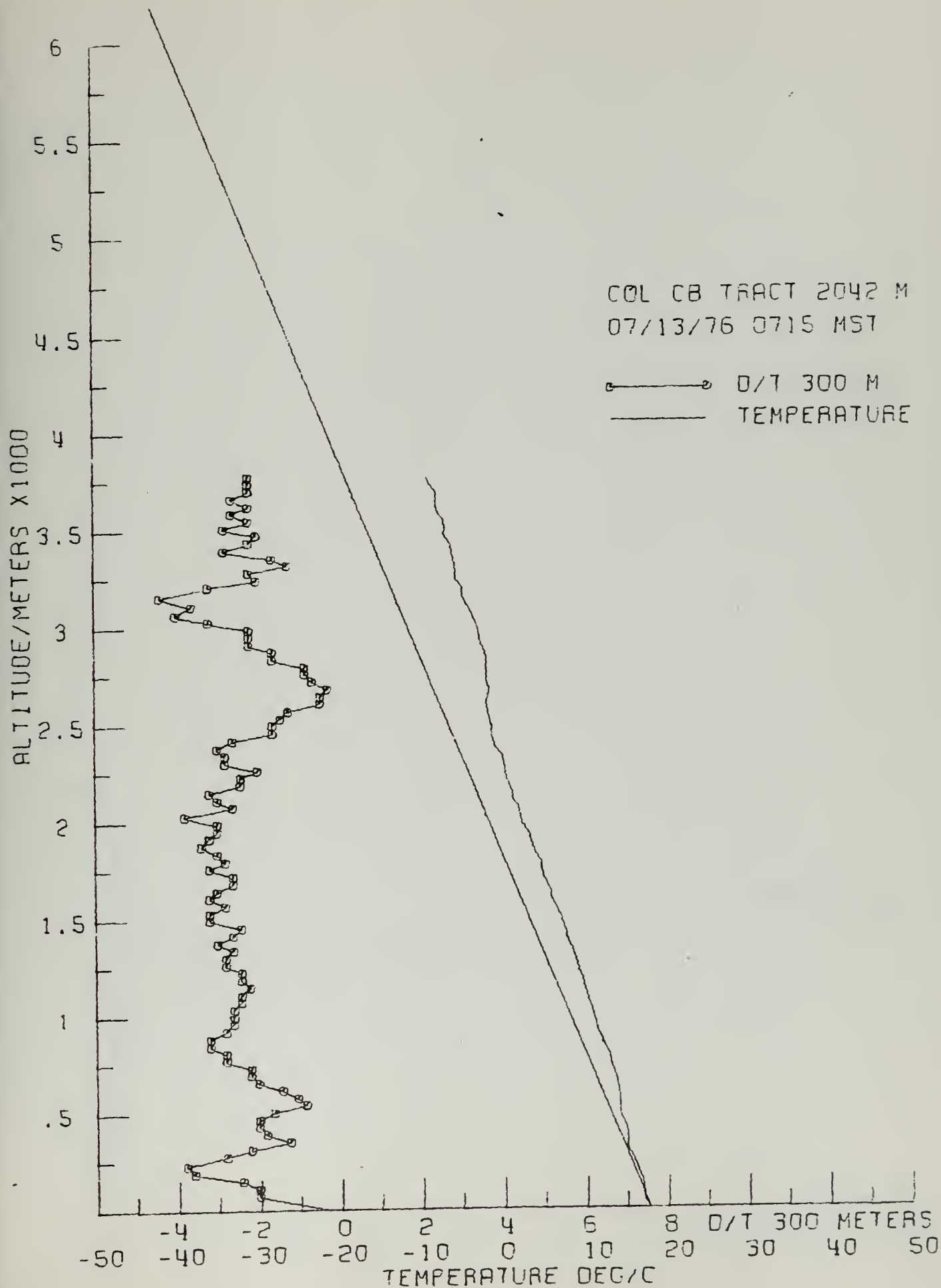


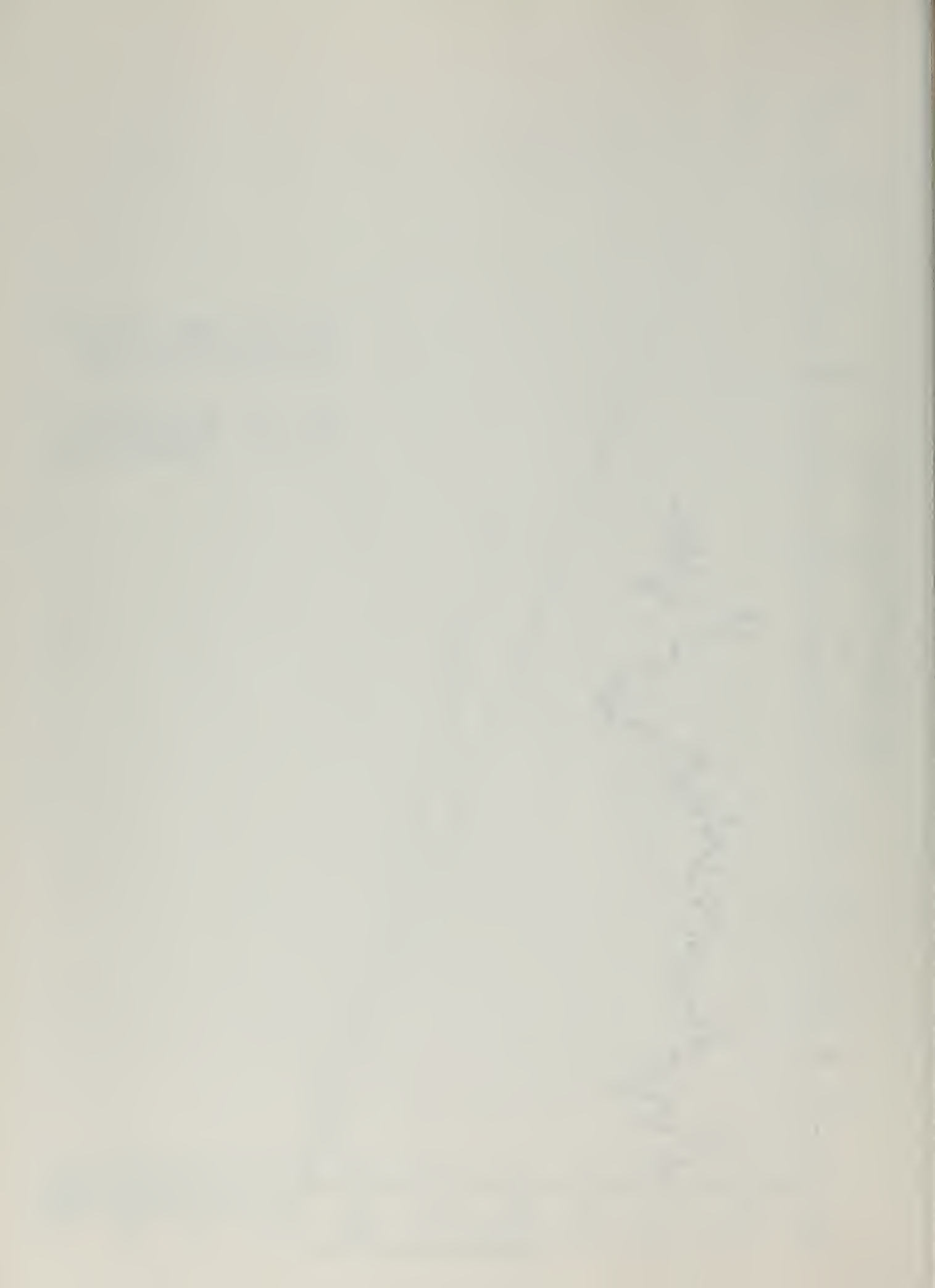


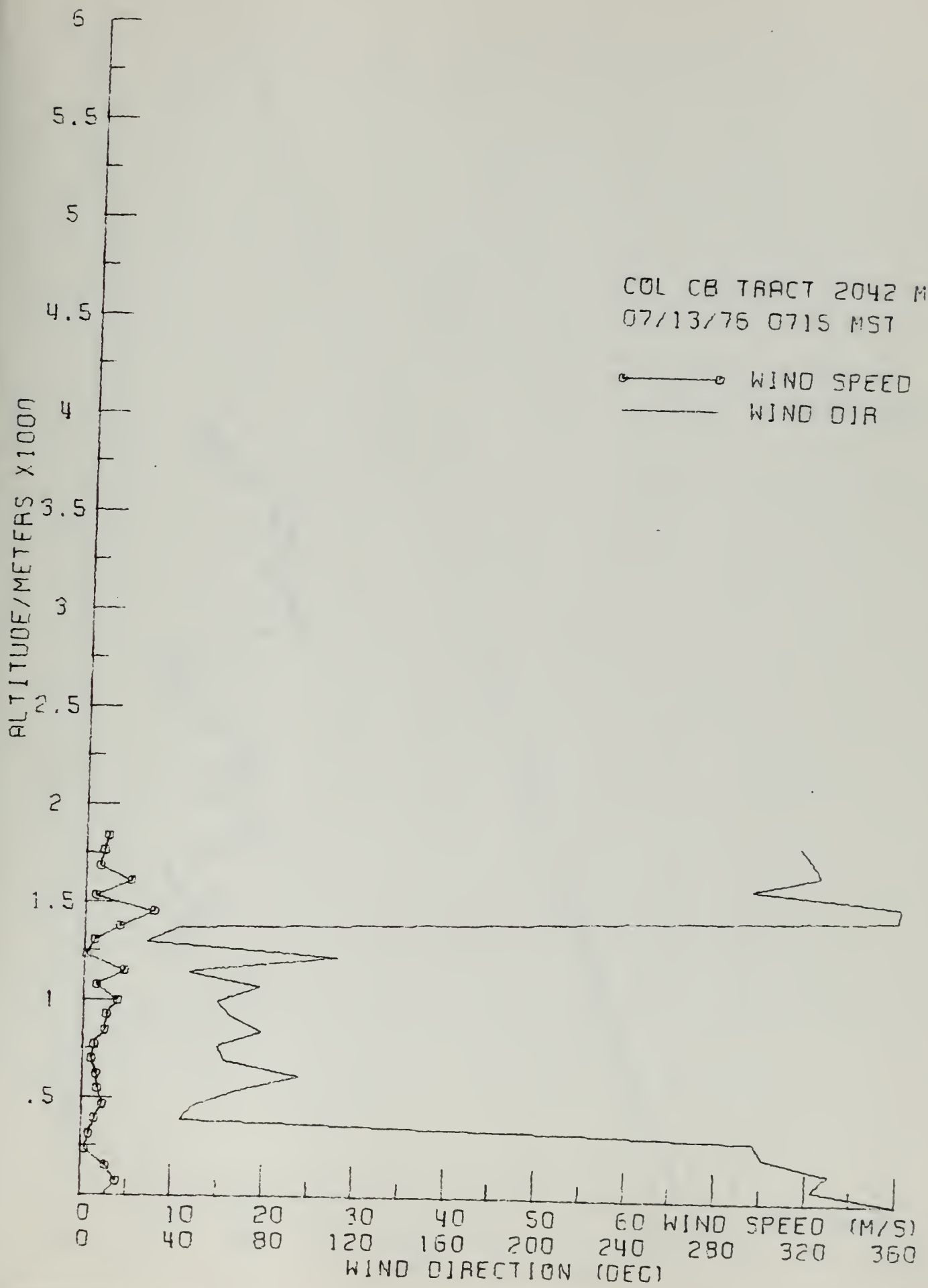


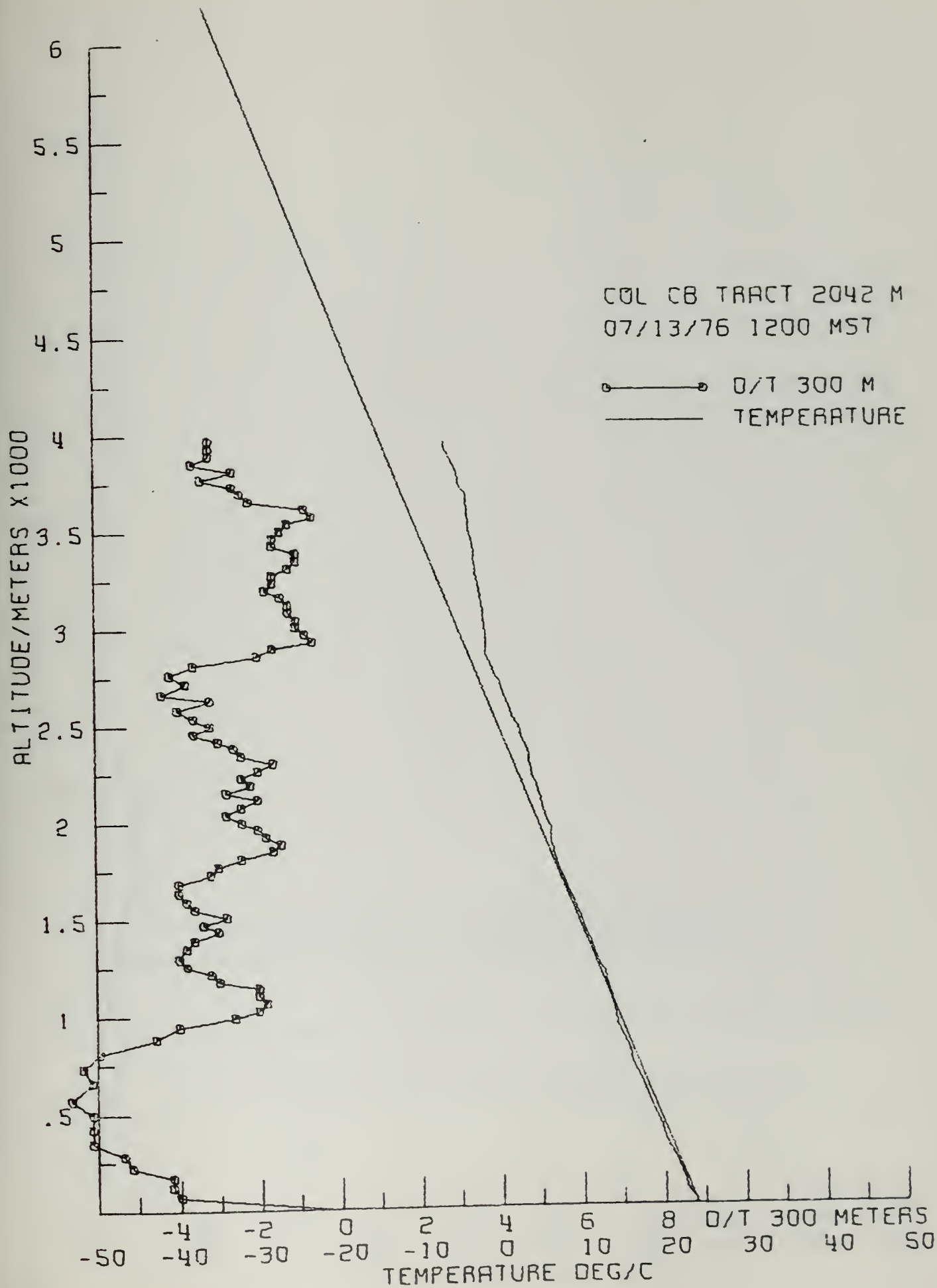


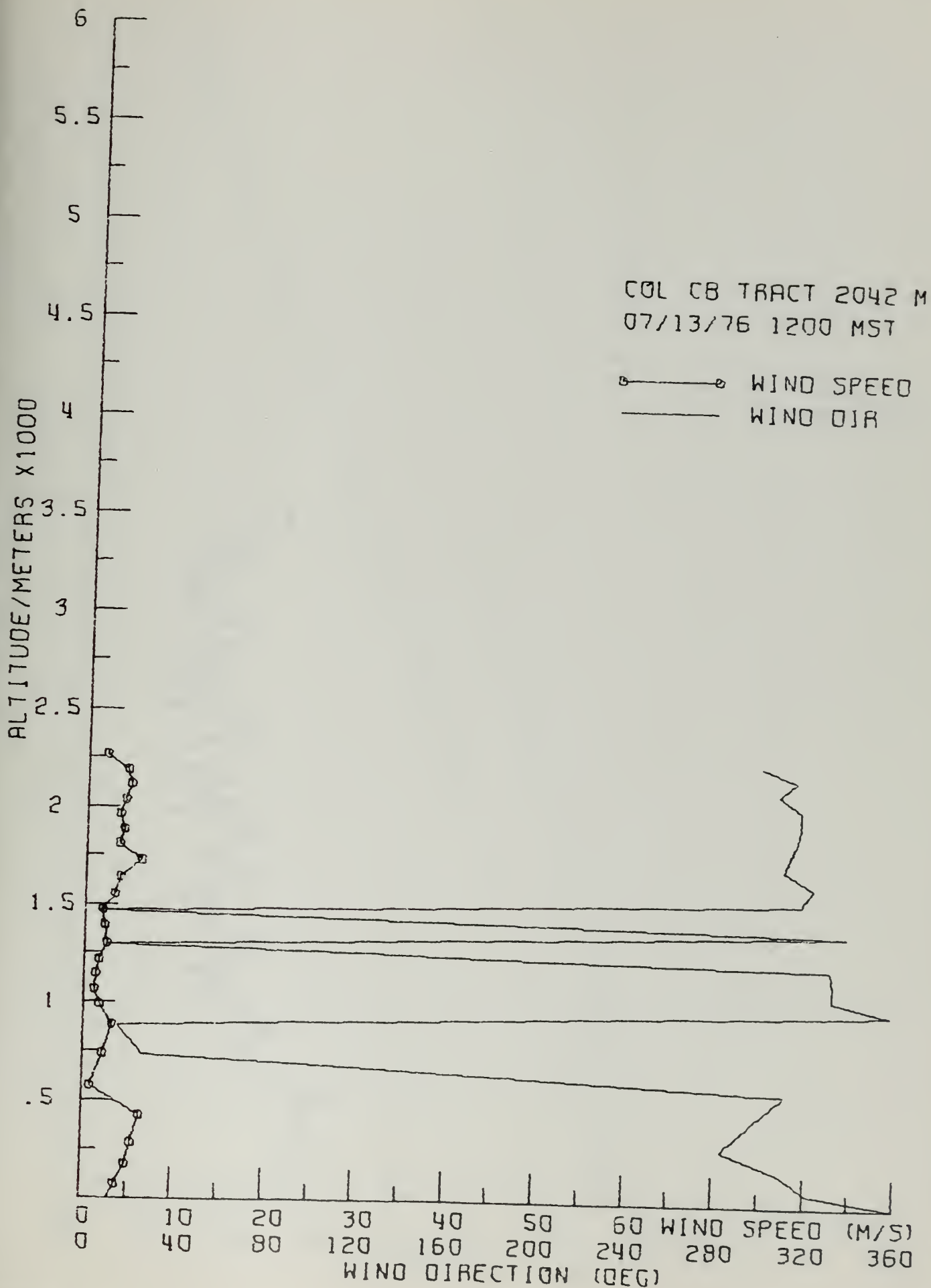


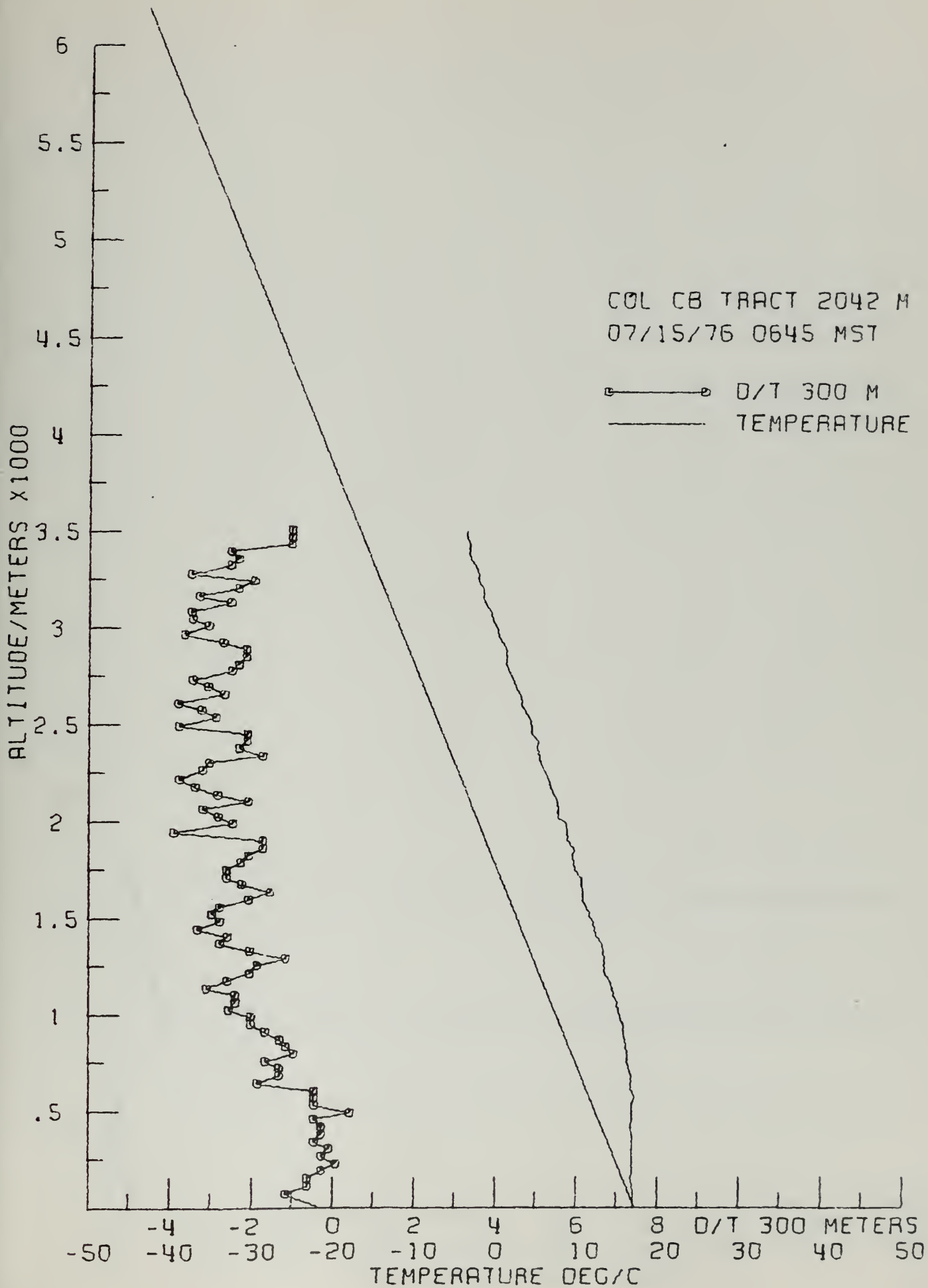


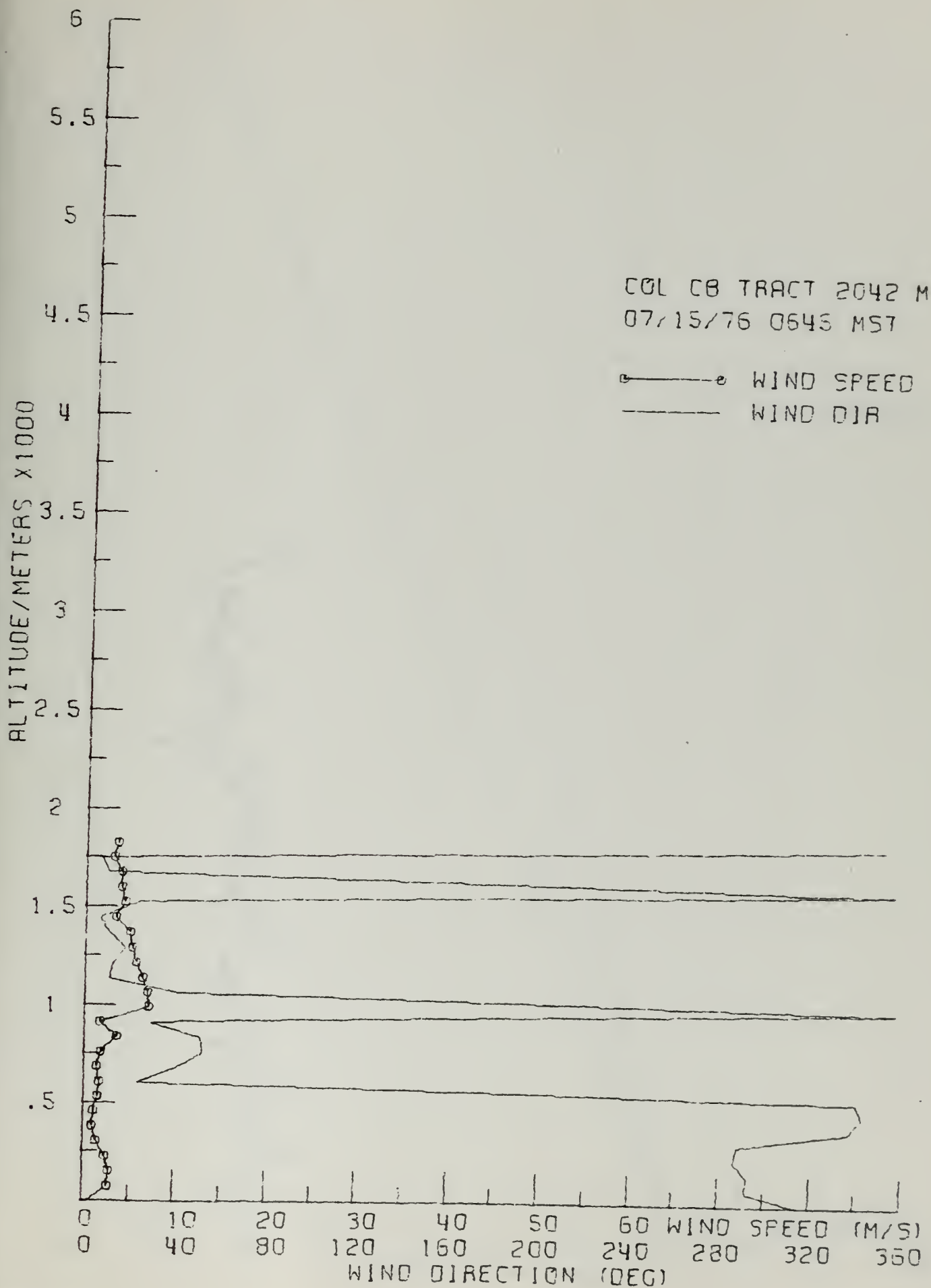


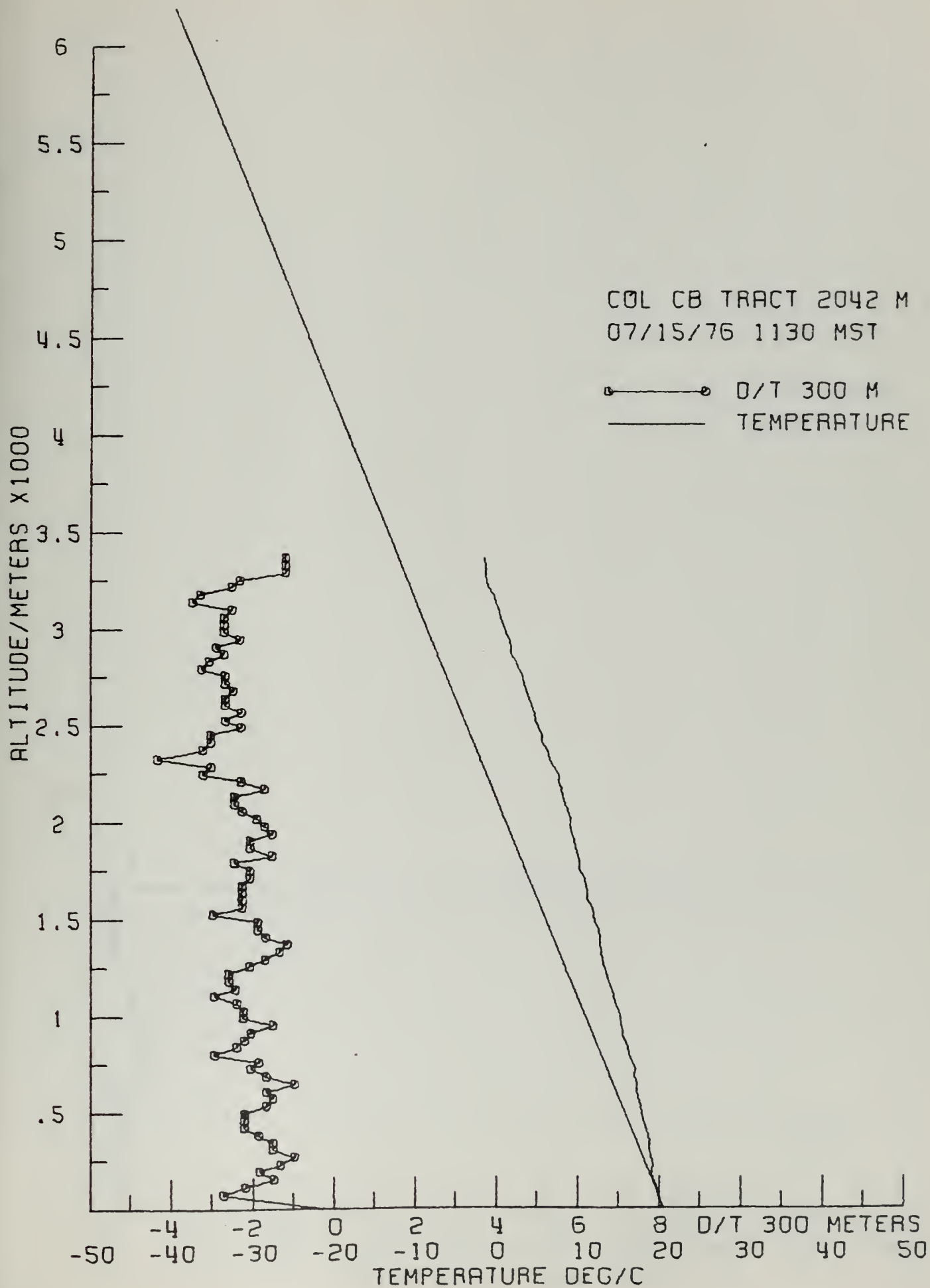


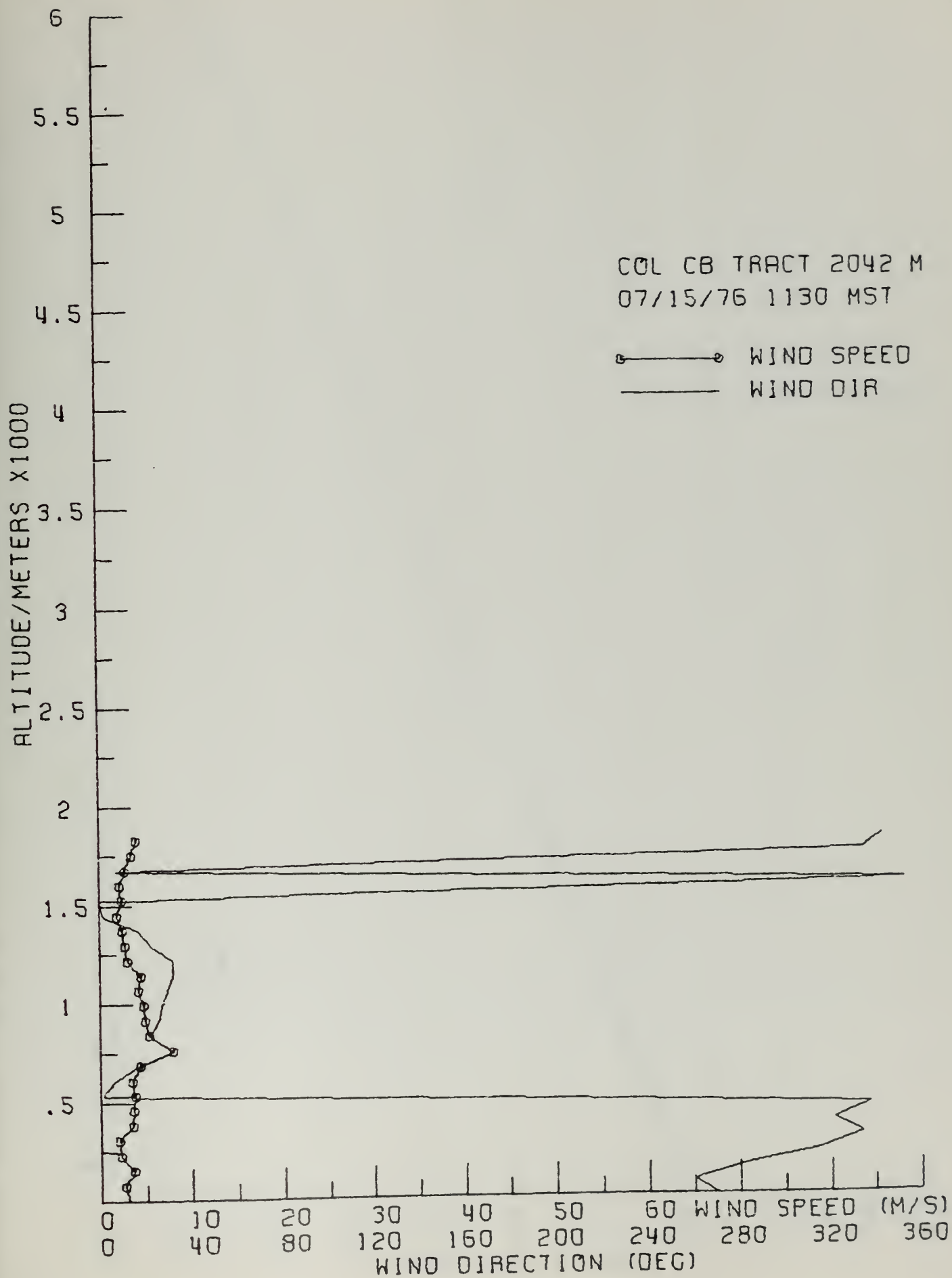


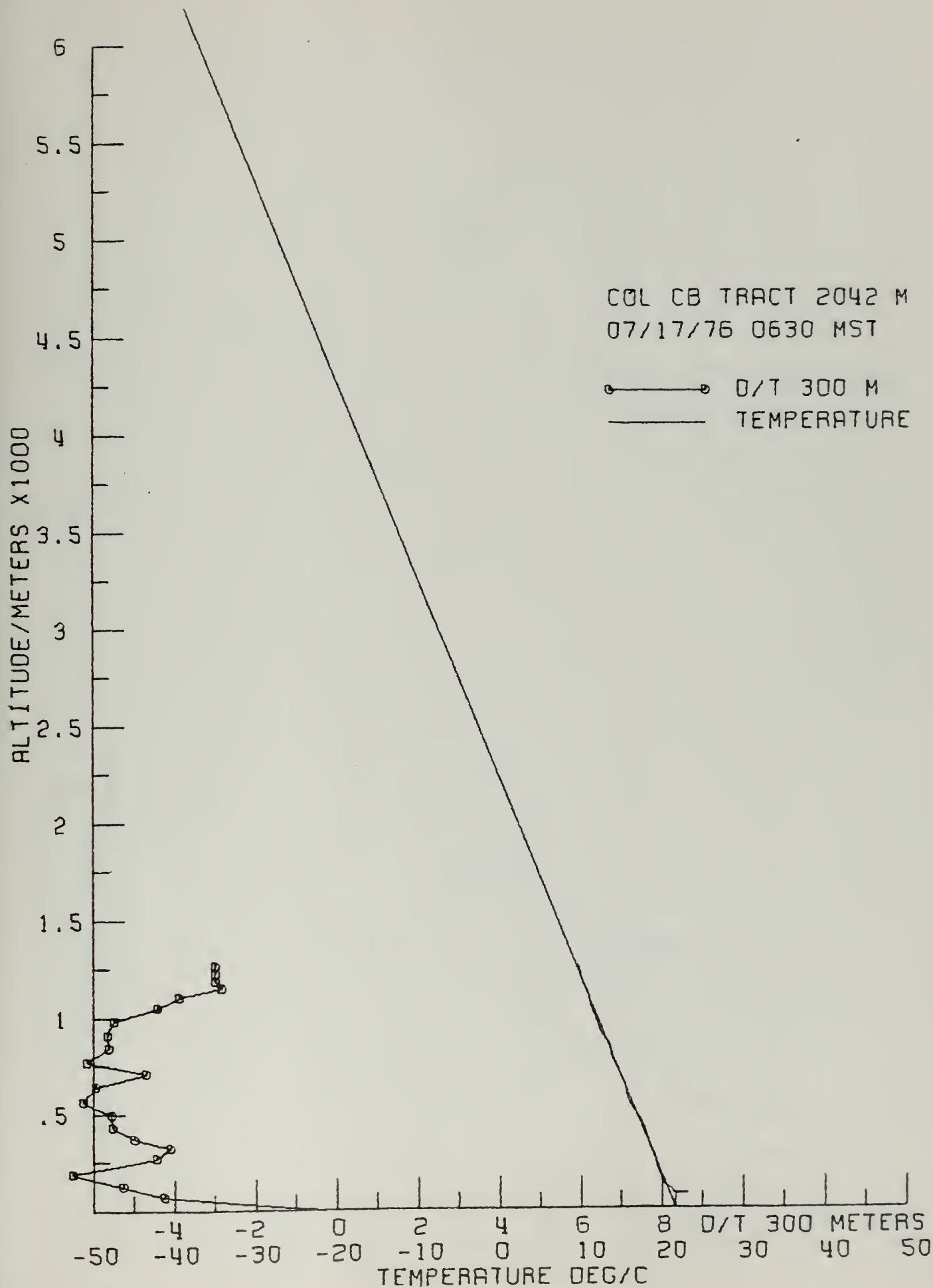


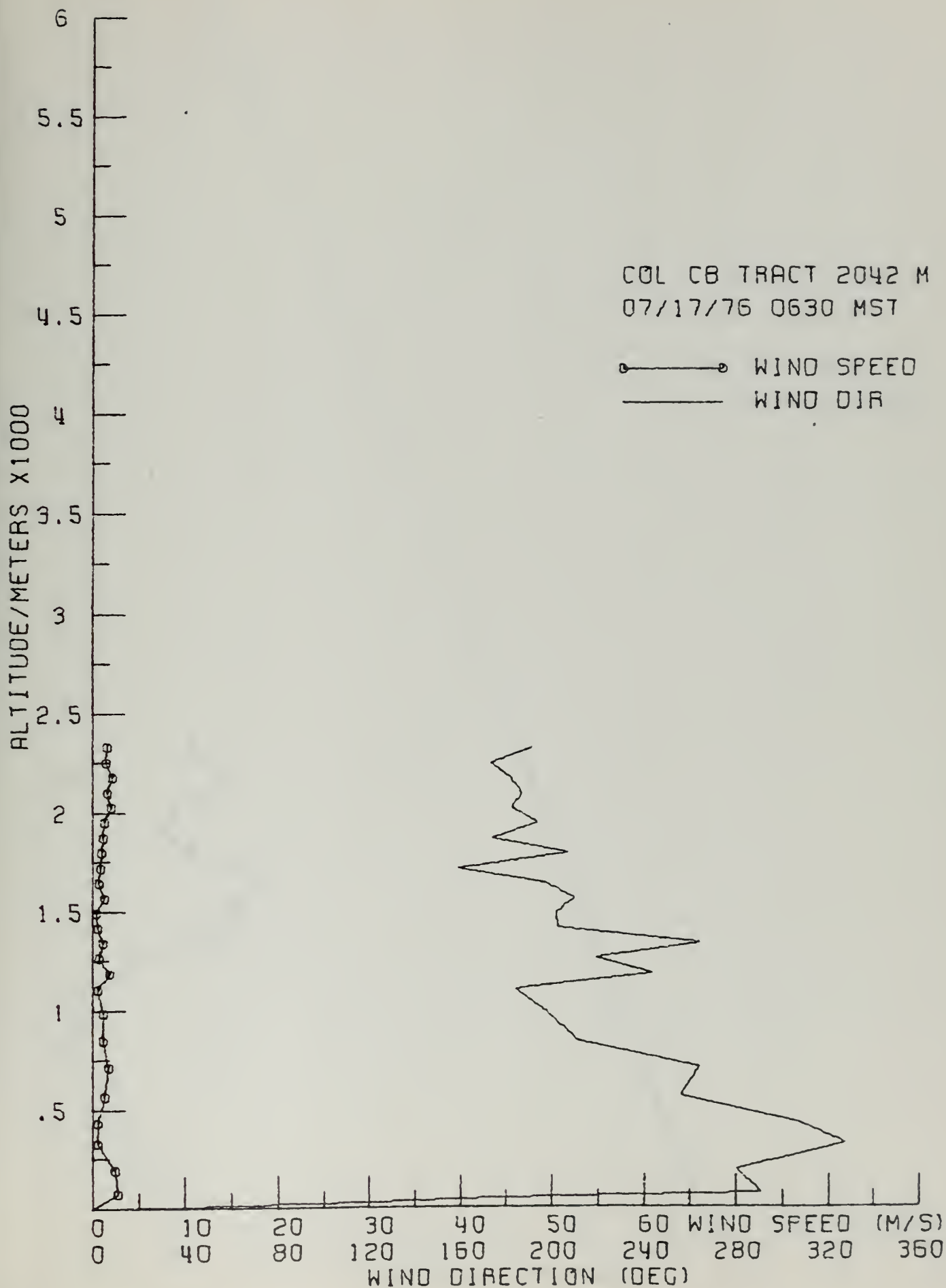


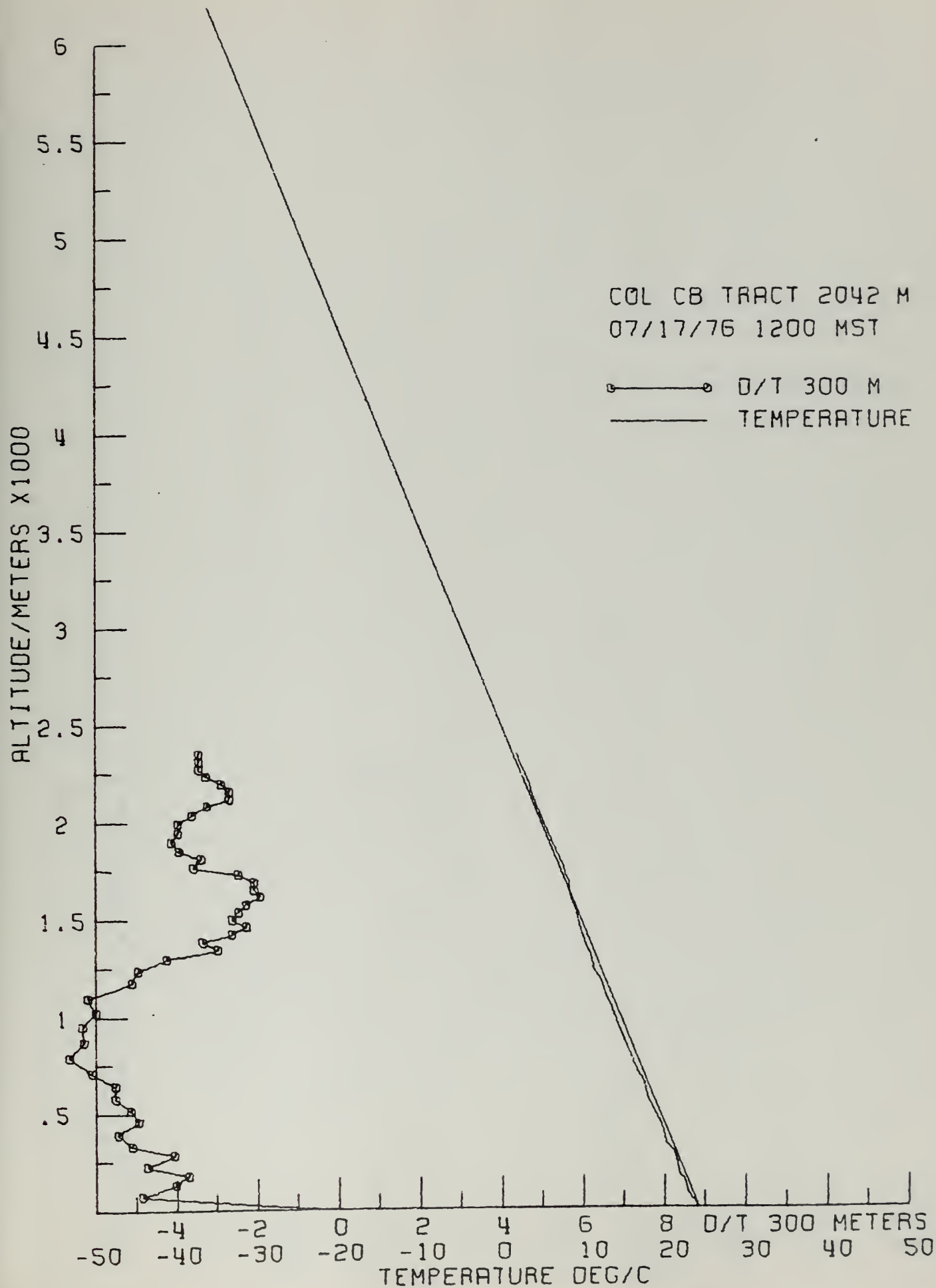


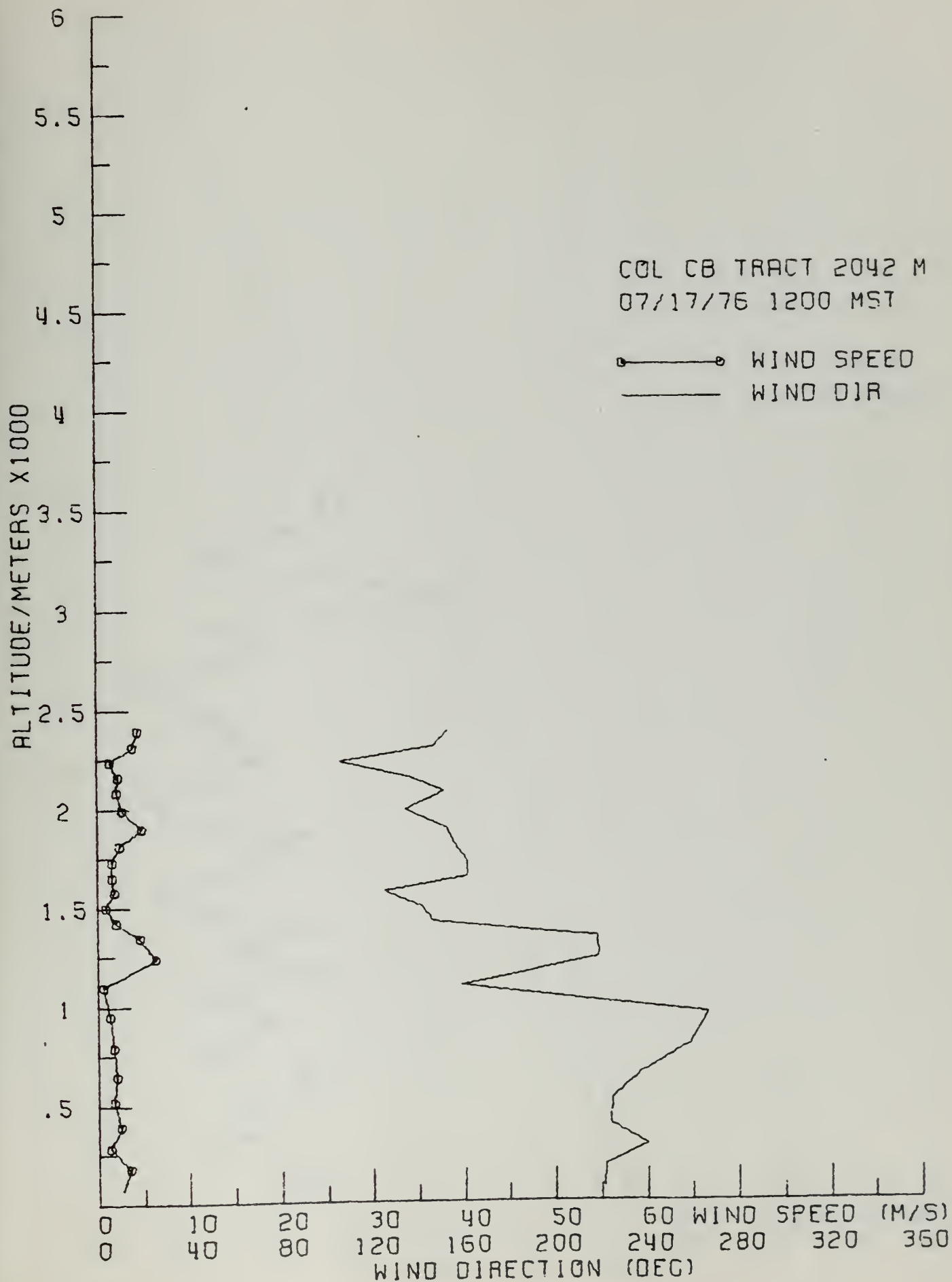


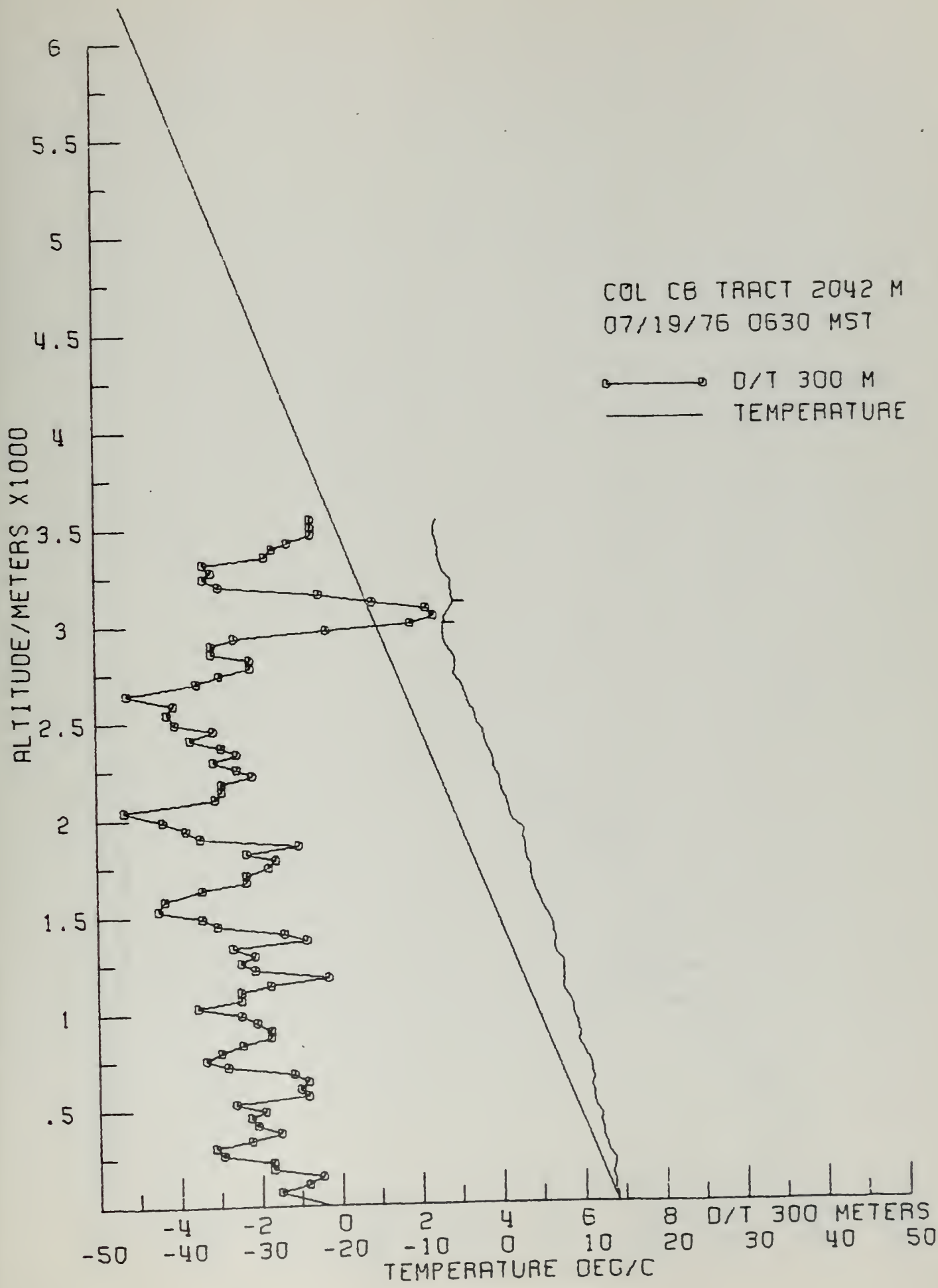




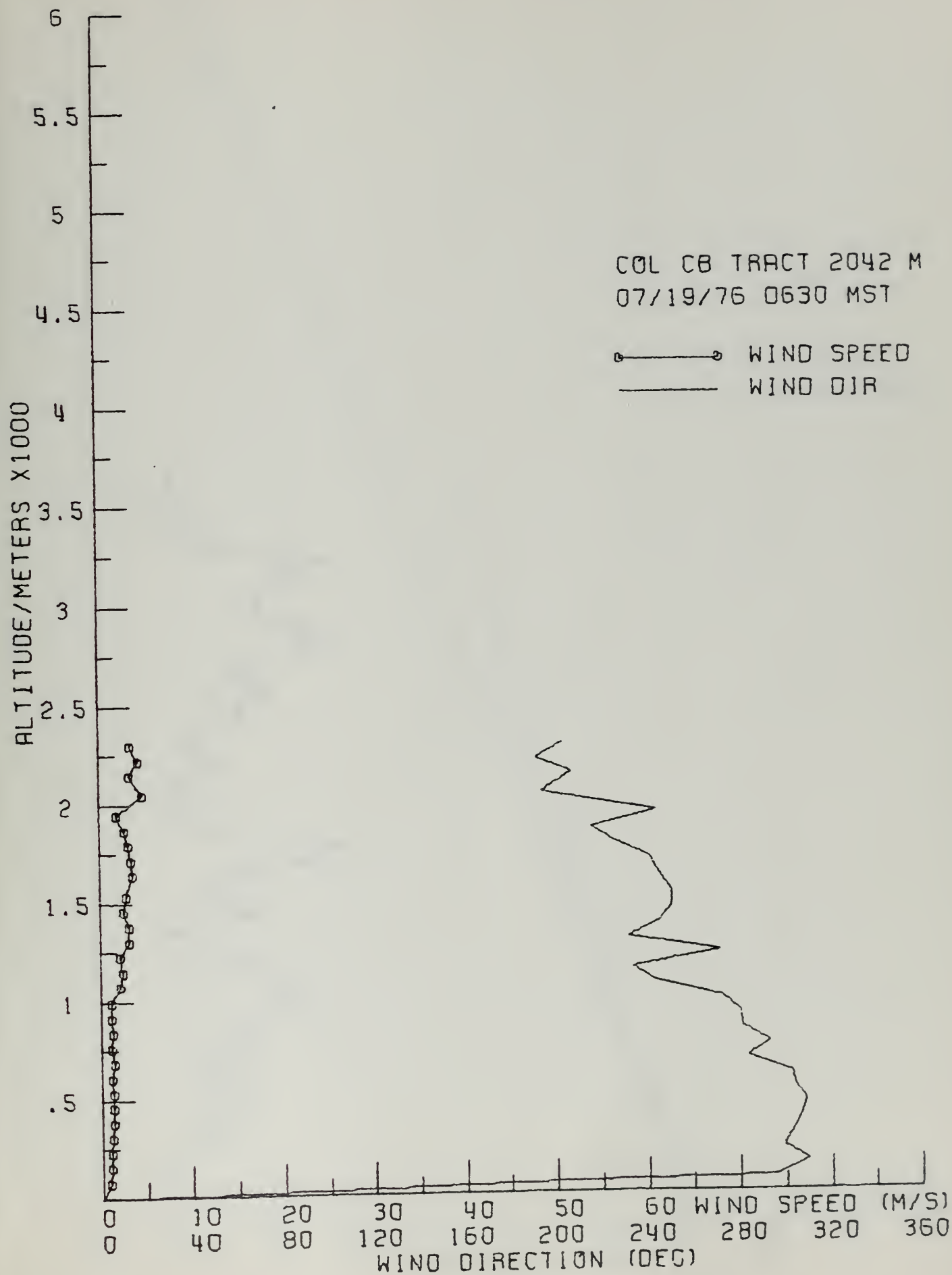




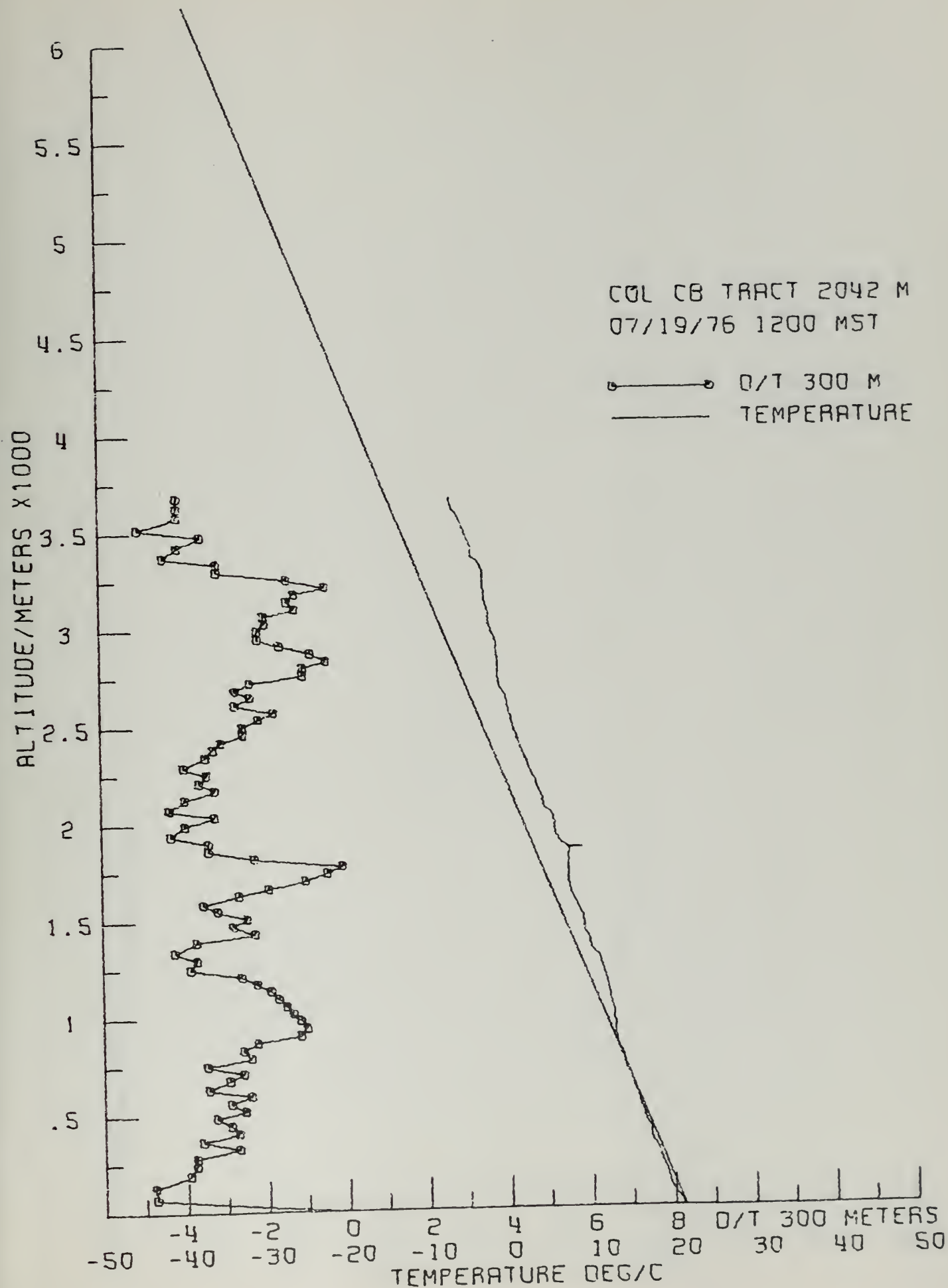


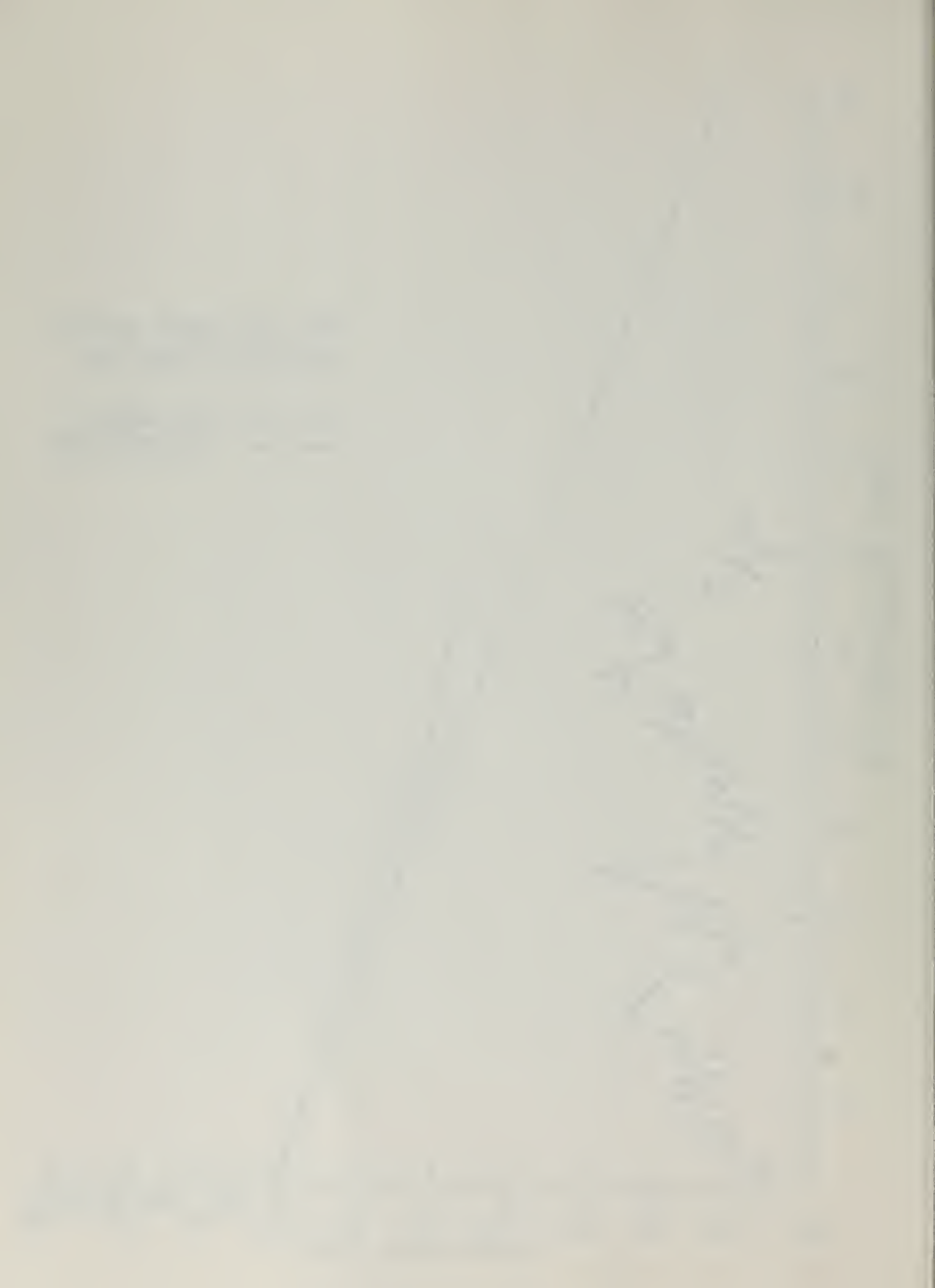


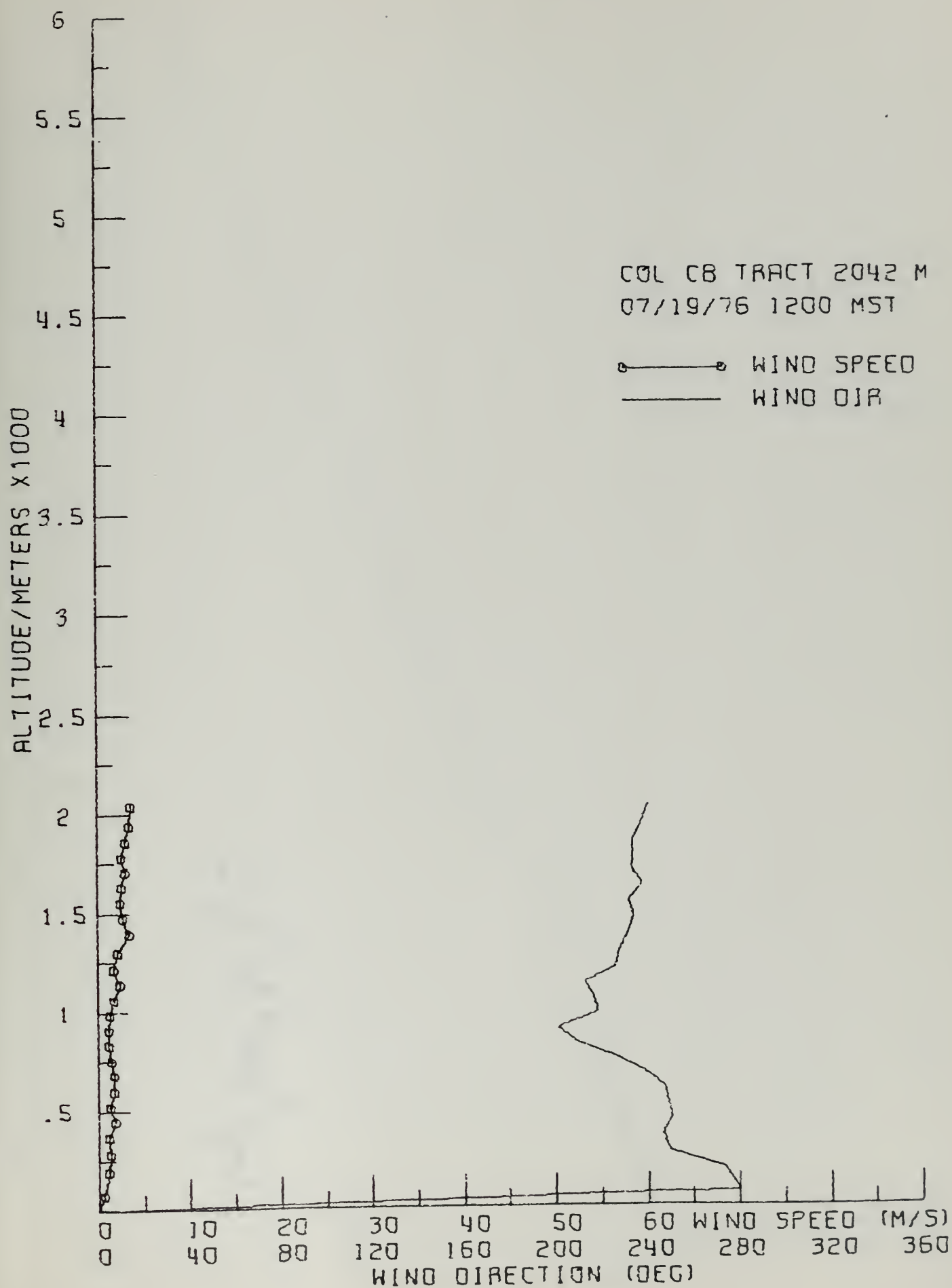




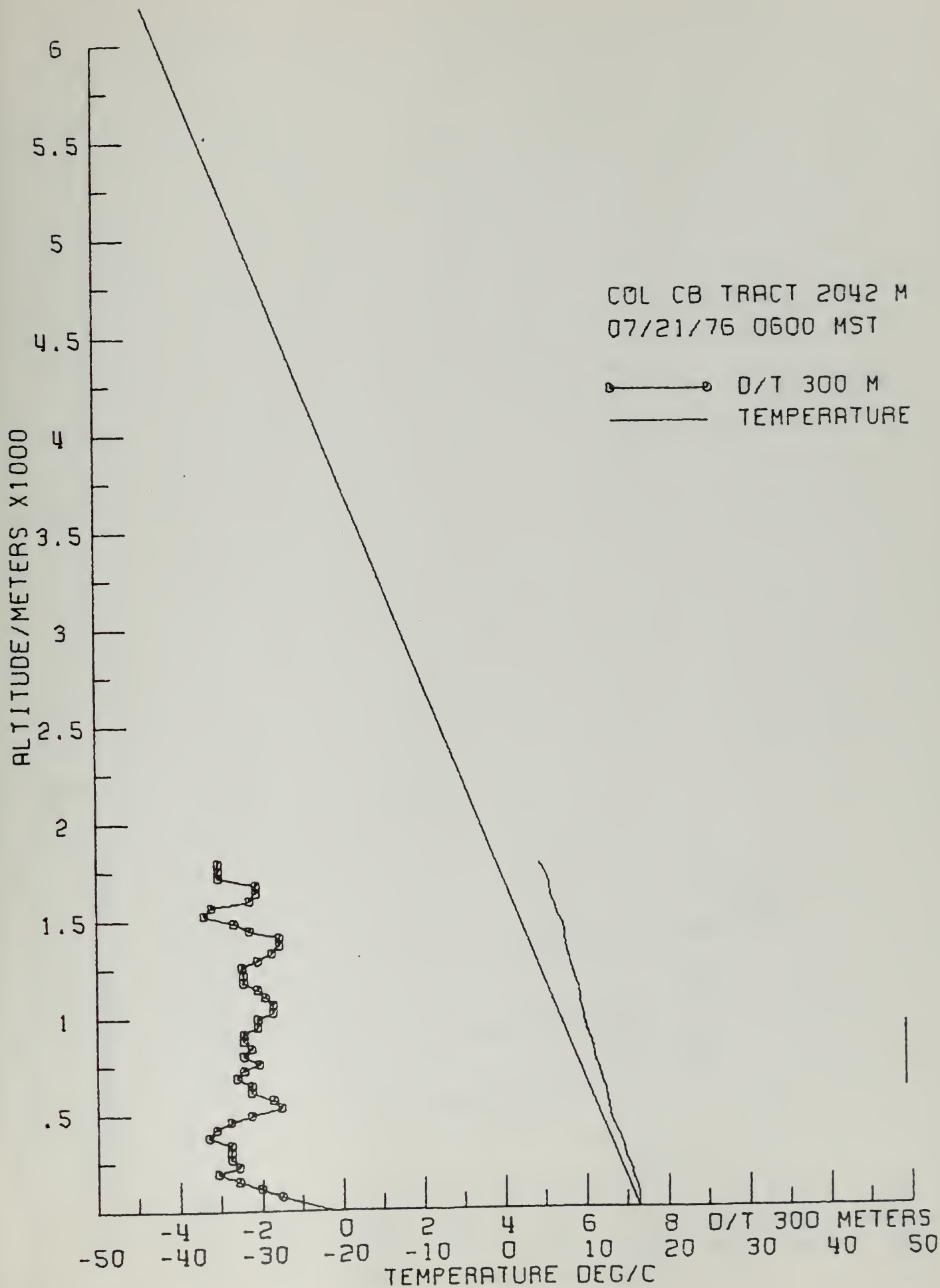




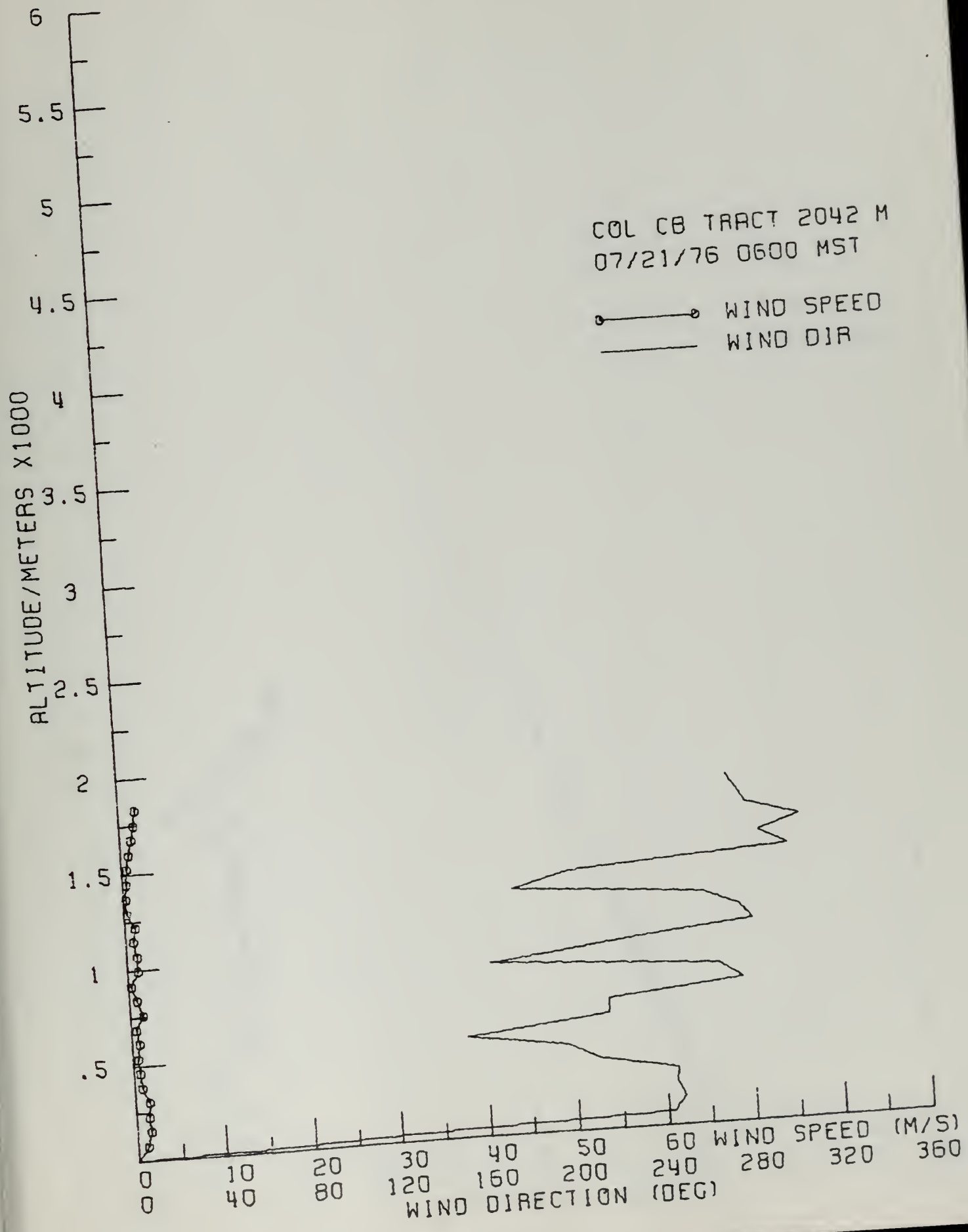




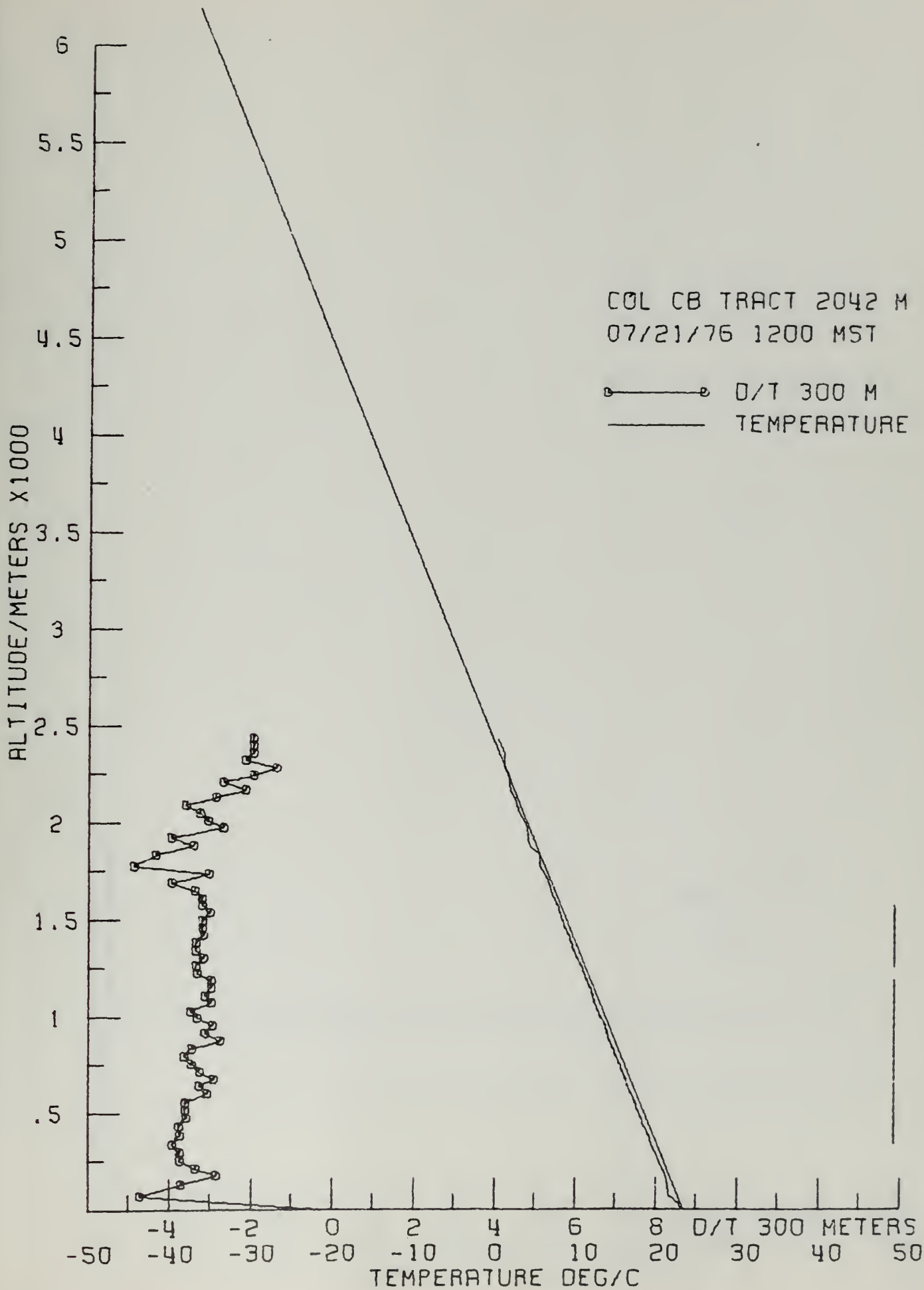




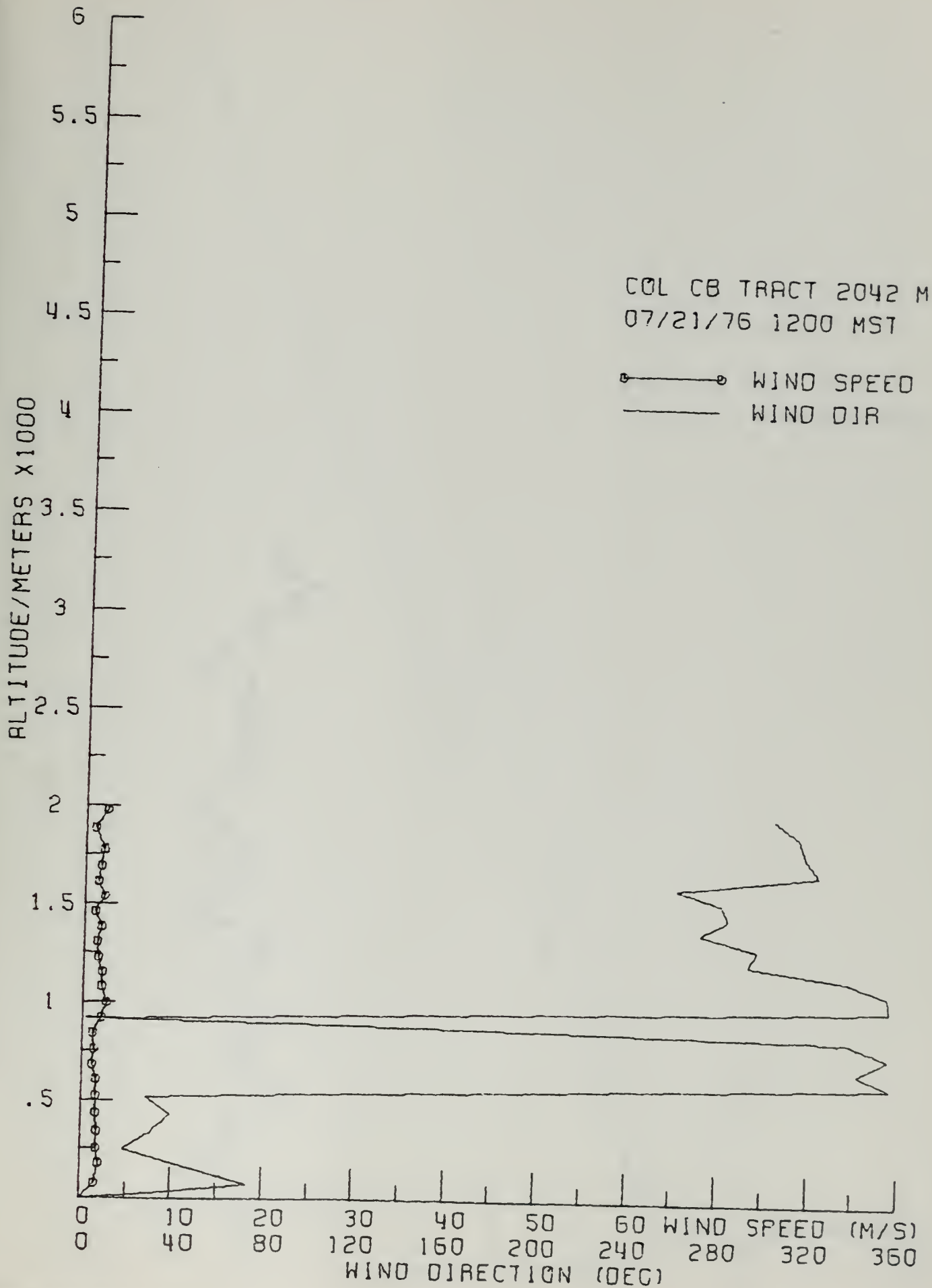


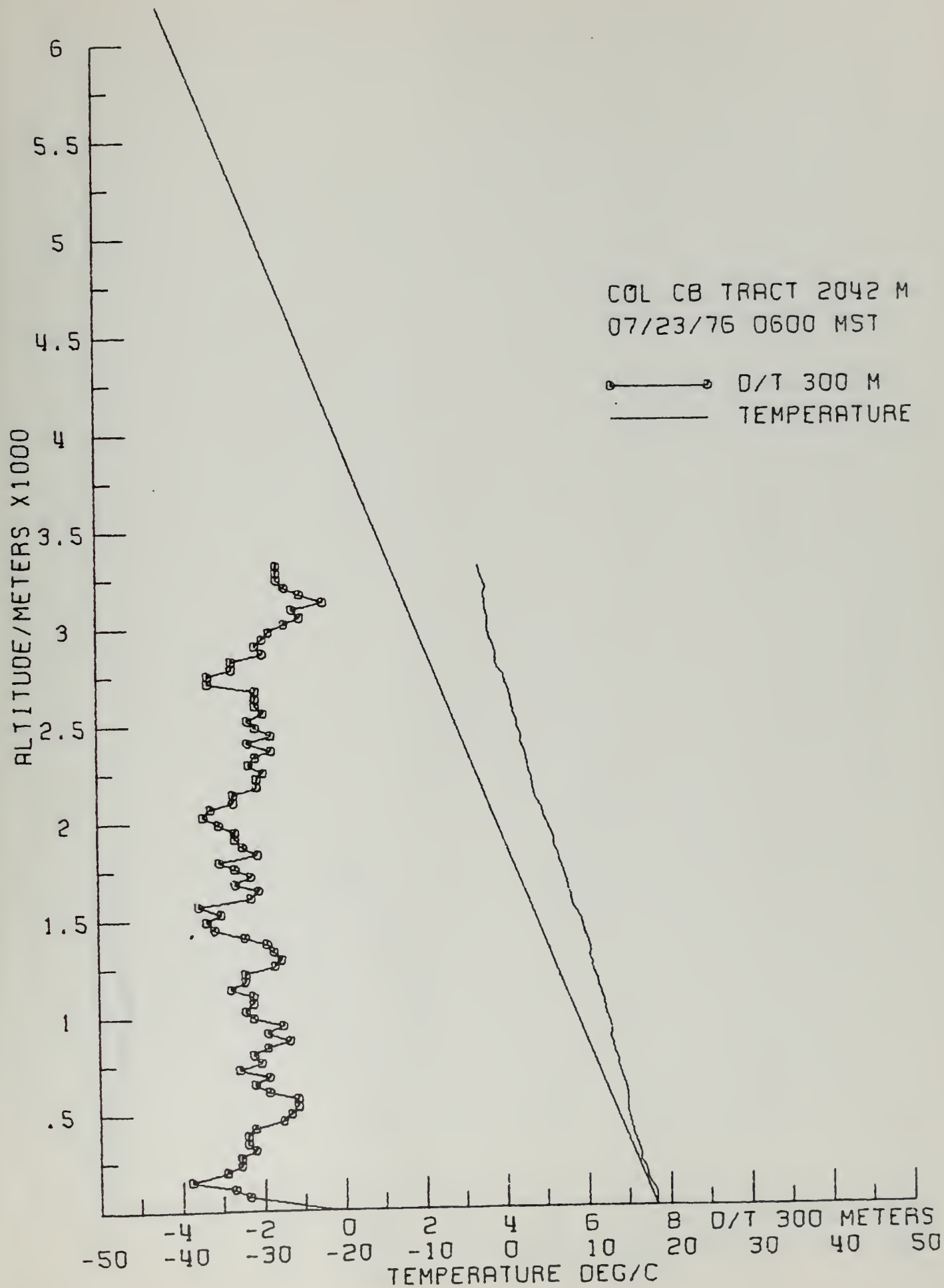


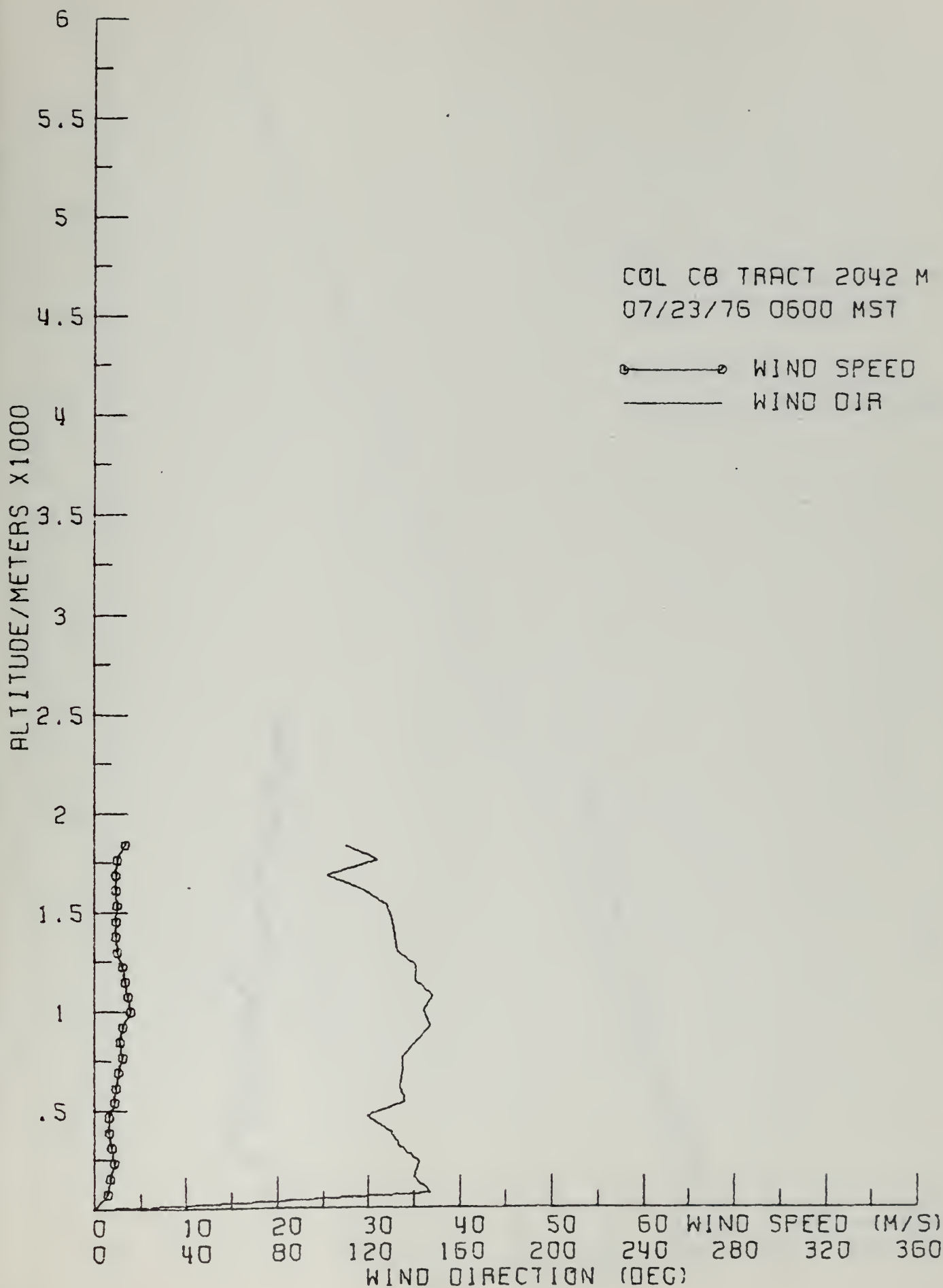


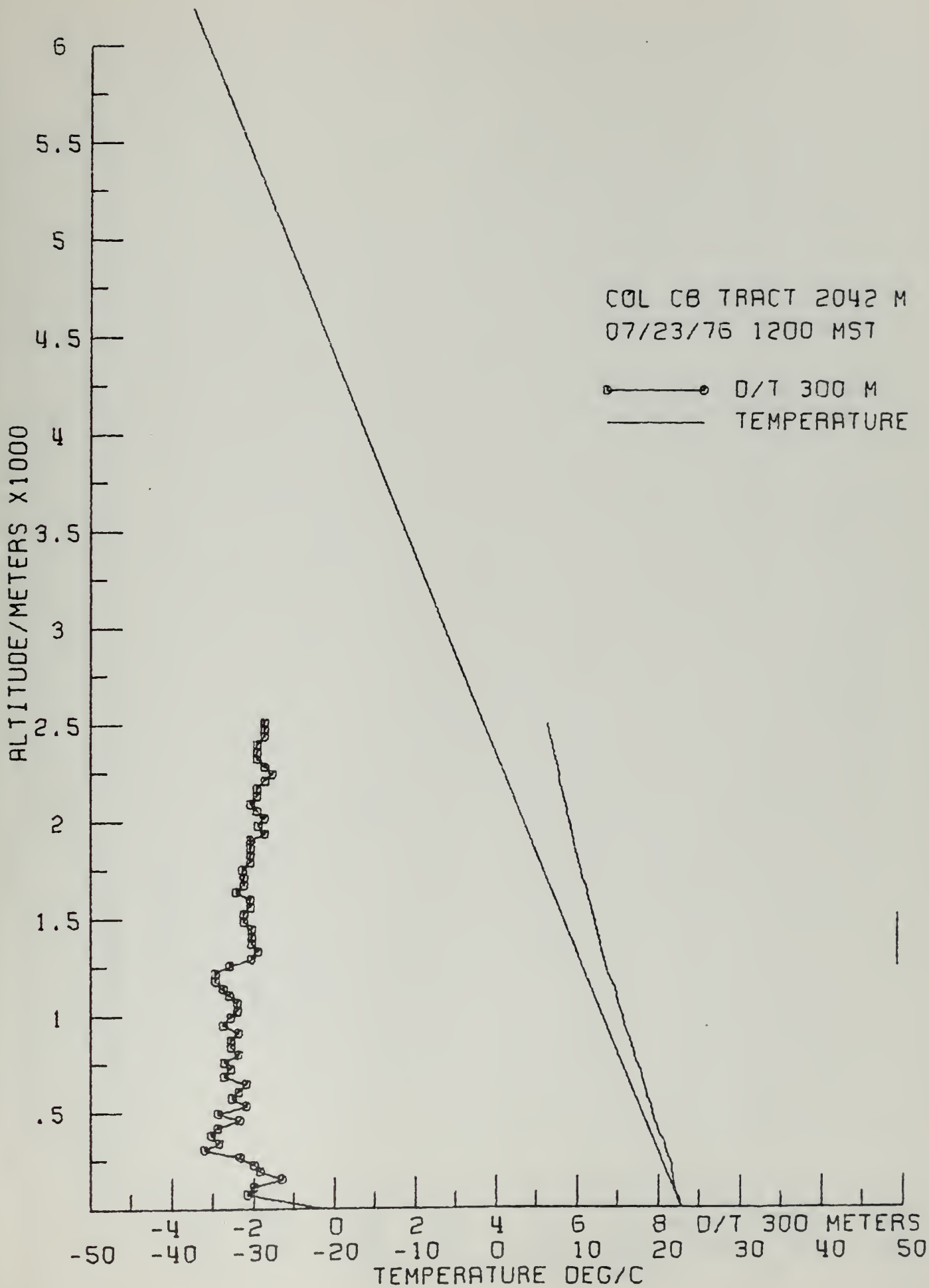




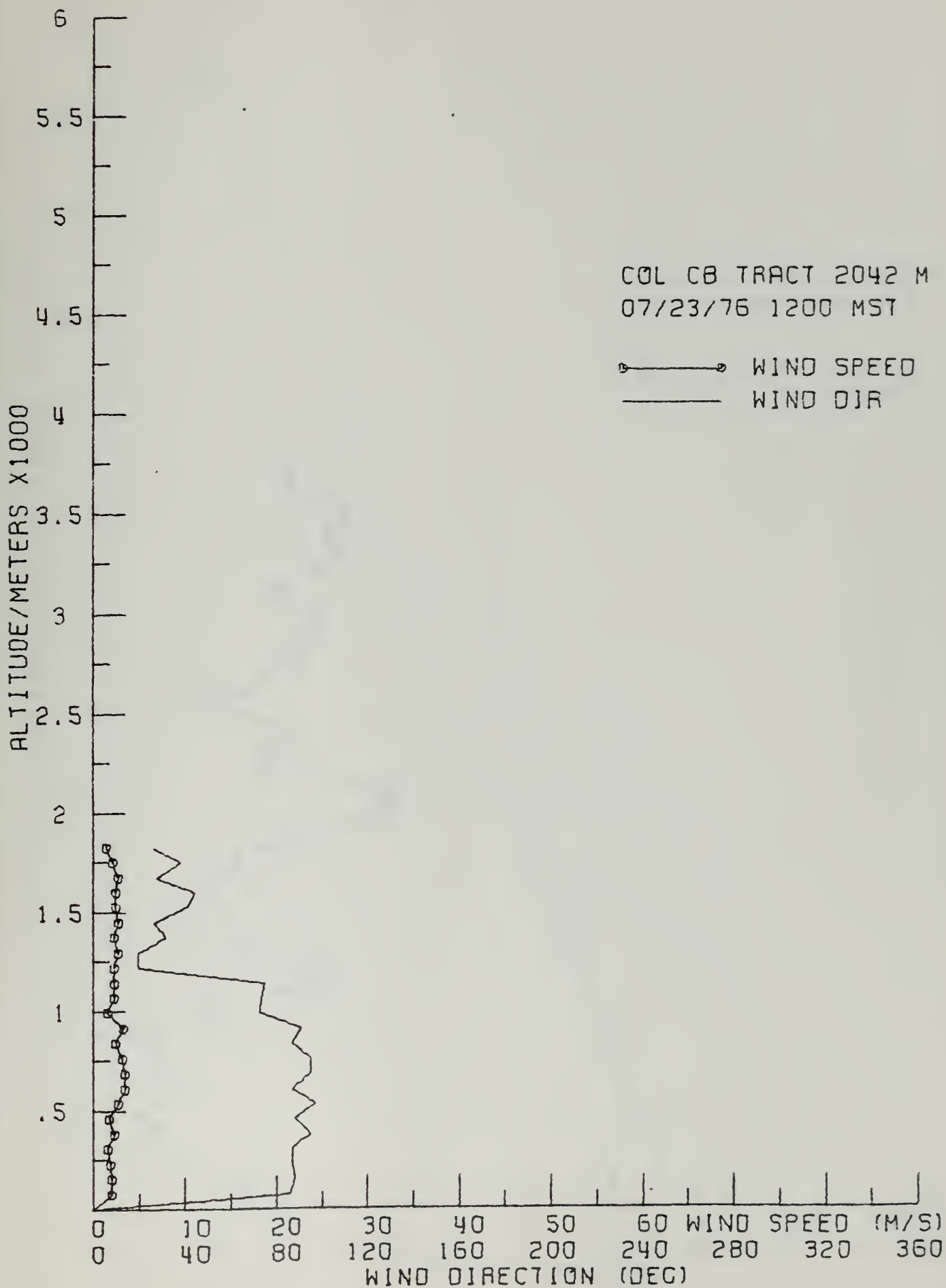




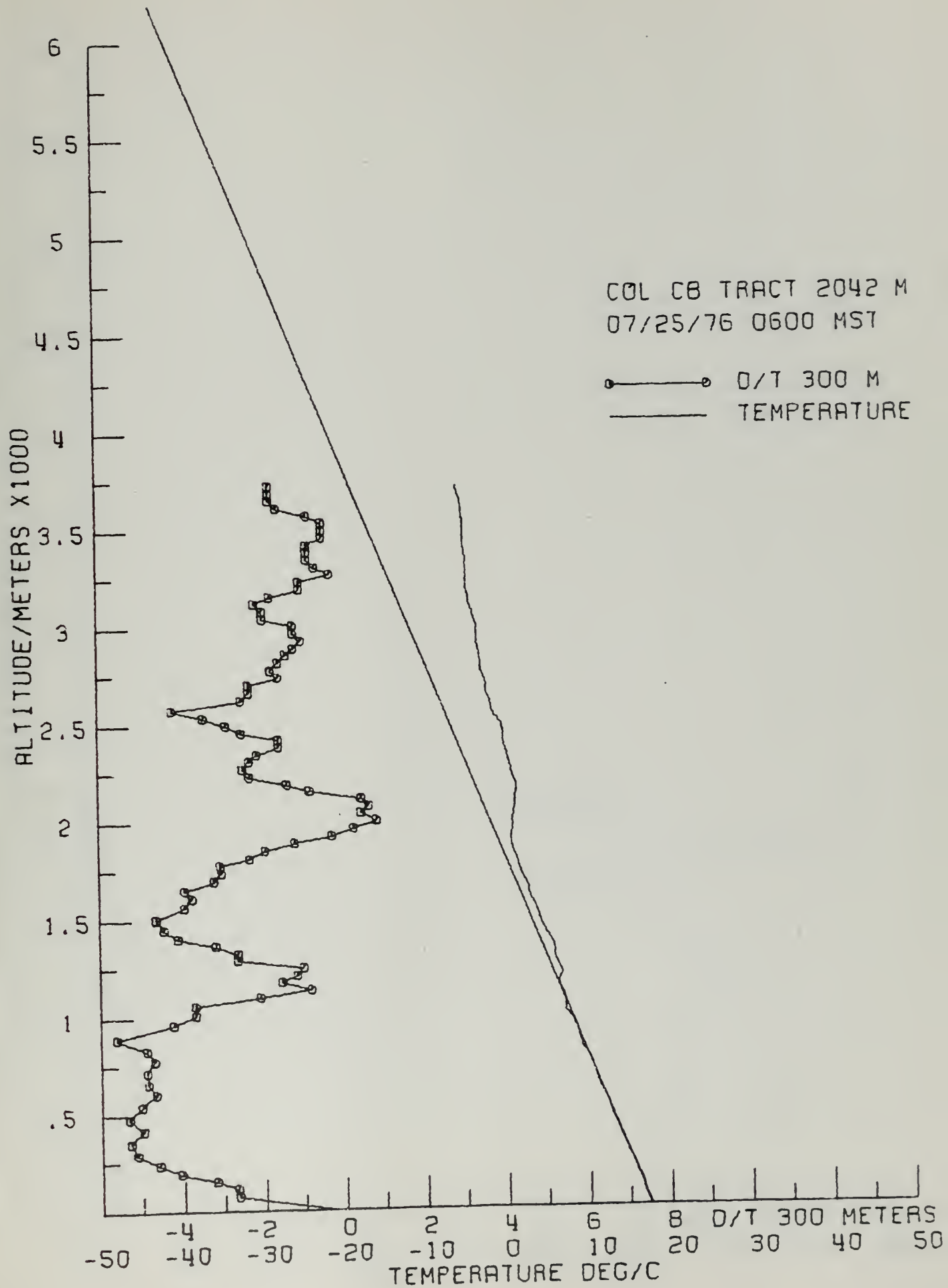




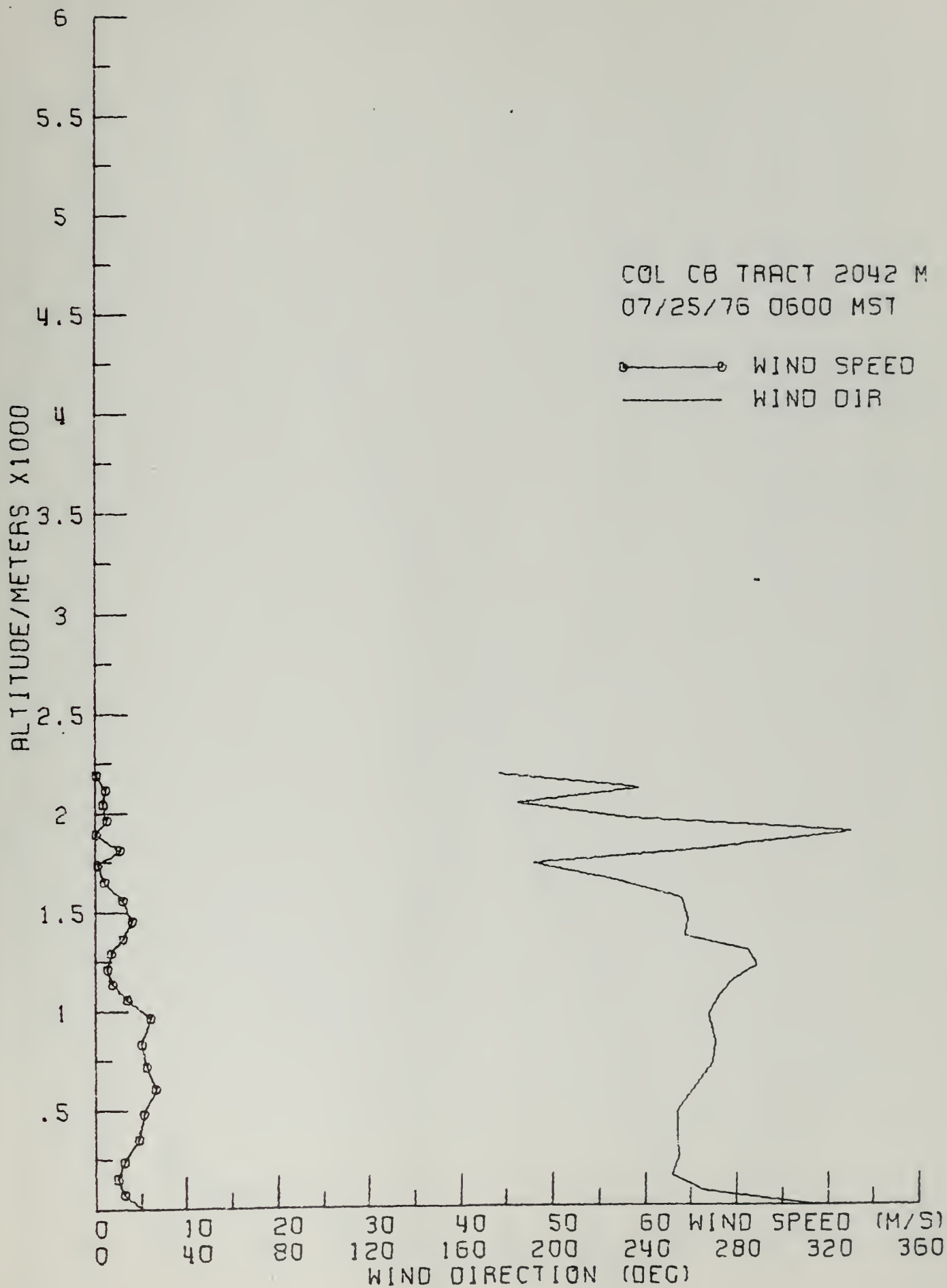




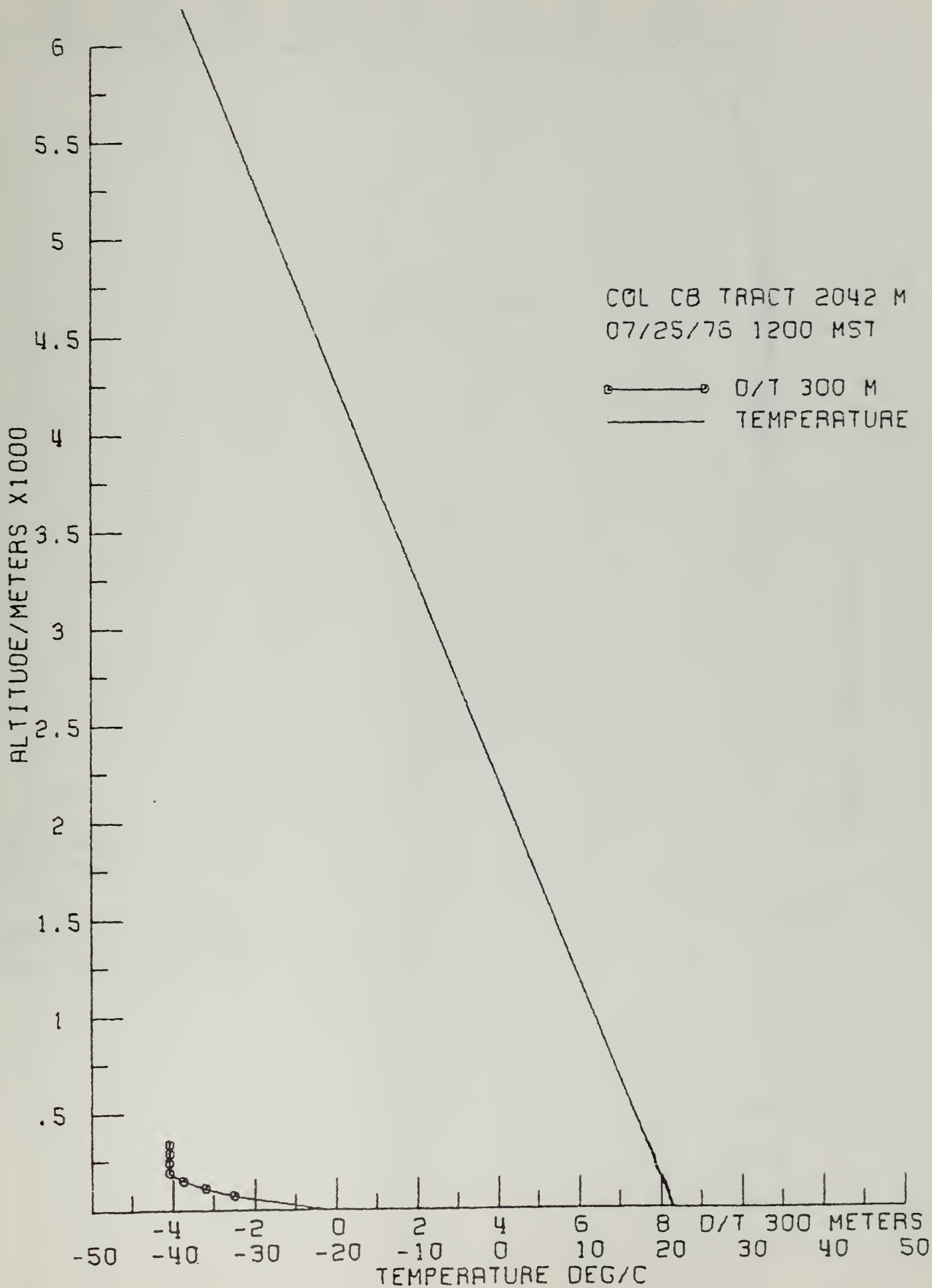


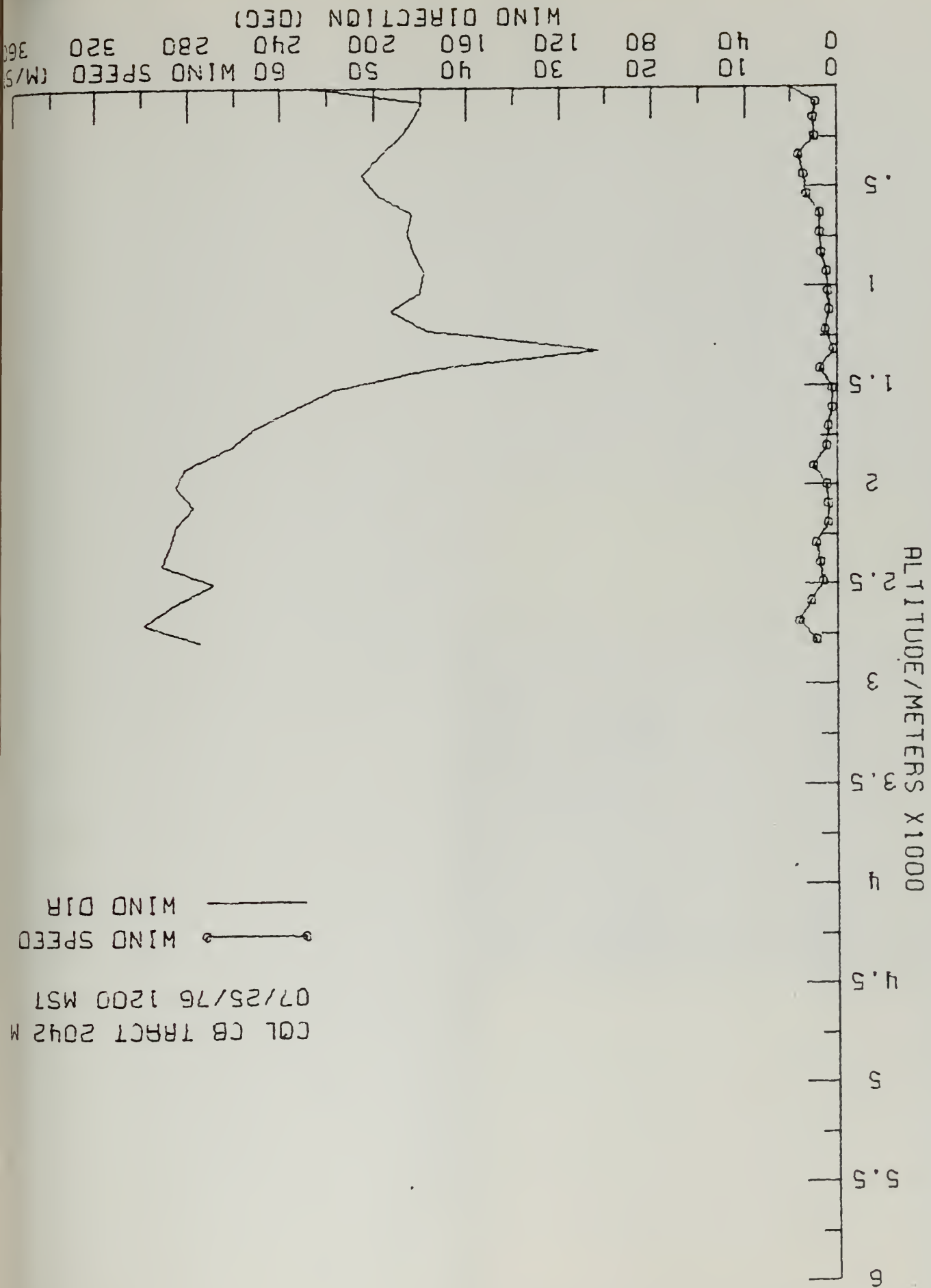












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